PBW
Consulting Engineers and Scientists

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September 10, 2015

Via E-mail and Overnight Delivery

Mr. Adam Adams
On Scene Coordinator
U.S. Environmental Protection Agency
Superfund, 6SF-PR
1455 Ross Avenue
Dallas, Texas 75202

Re: Monthly Progress Report – AUGUST 2015
Site Monitoring and Stabilization Activities
US Oil Recovery/MCC Recycling Site
400 N Richey/200 N Richey, Pasadena, Texas

Dear Mr. Adams,

On behalf of the US Oil Recovery (USOR) Site PRP Group (PRP Group), Pastor, Behling & Wheeler, LLC (PBW) is pleased to submit this Monthly Progress Report in accordance with the requirements under Section VIII, Paragraph 21 of the Administrative Order on Consent (AOC) for the USOR and MCC Recycling Site (the Site).

Site Activities

Site activities for this reporting period included: (1) routine Bi-Weekly (twice per week) Site Monitoring by Ramboll Environ US Corporation (Ramboll Environ); (2) five pump down responses to remove storm water from Sump 36, Frac Tank A1475B, the North Tank Farm (NTF) and South Tank Farm (STF) secondary containments, the MCC East Lift Station No. 1, and the MCC West Primary Clarifier; and (3) performance of equipment "early action" activities by Effective Environmental, Inc. (Effective) in preparation for addressing residual waste material in Equipment Items EQ-07 thru EQ-10.

Bi-Weekly Site Monitoring – Ramboll Environ continued routine Bi-weekly Site Monitoring during this reporting period. A total of nine Site Monitoring events were conducted in August 2015. Scanned copies of the completed Site Conditions Checklists (SCCs) are provided as Attachment 1. No significant changes in Site conditions were observed during the August 2015 Site Monitoring activities. No photographic documentation of August 2015 Site Monitoring events was prepared due to lack of changed site conditions during this reporting period.

Pump Down Responses – Ramboll Environ scheduled a routine pump down response on August 3, 2015 to remove the remaining liquid from Frac Tank A1475B at the USOR property, which was used to contain storm water from the NTF and STF secondary containments pump down responses in May and June 2015. The removal of storm water was conducted on August 3, 2015 as follows:

- Frac Tank A1475B (containing NTF and STF water) – A total of approximately 2,500 gallons (one partial tanker truck load); and

- NTF - A total of approximately 2,500 gallons (one partial tanker truck load).

In anticipation of forecast rain for the site, Ramboll Environ initiated a pump down response on August 20, 2015 to provide additional freeboard in Sump 36. The removal of storm water was conducted on August 20, 2015 as follows:

- Sump 36 – A total of approximately 5,100 gallons (one tanker truck load).

In anticipation of forecast rain for the site, Ramboll Environ initiated a pump down response on August 24, 2015 to provide additional freeboard in the MCC West Primary Clarifier. The removal of storm water was conducted on August 24, 2015 as follows:

- Primary Clarifier – A total of approximately 5,087 gallons (one tanker truck load).

Due to recent rainfall at the site, Ramboll Environ initiated a pump down response on August 27, 2015 to provide additional freeboard in the NTF and STF secondary containments. The removal of storm water was conducted on August 27, 2015 as follows:

- NTF – A total of approximately 5,145 gallons (one tanker truck load); and

- STF – A total of approximately 5,000 gallons (one tanker truck load).

Due to recent rainfall at the site, Ramboll Environ initiated a pump down response on August 31, 2015 to provide additional freeboard in the NTF secondary containment and MCC East Lift Station No. 1. The removal of storm water was conducted on August 31, 2015 as follows:

- NTF – A total of approximately 5,000 gallons (one tanker truck load); and

- Lift Station No. 1 – A total of approximately 5,092 gallons (one tanker truck load).

The storm water from all pump down response events was transported off-site to the Intergulf Pasadena, Texas facility for disposal. Scanned copies of the Intergulf Shipping Manifests are included as Attachment 2.

Equipment "Early Action" Activities - In preparation for addressing residual waste material in Equipment Items EQ-07 thru EQ-10, Effective inspected and removed liquids from these equipment hoppers on August 27, 2015. Oil and water were removed from EQ-07, EQ-09 and EQ-10 (no recoverable liquids were observed in EQ-08) and transferred to a total of three separate totes brought on-site by Effective for temporary on-site storage pending off-site disposal.

Sampling Activities

A sample of the liquid in Equipment Item EQ-07 was collected by Effective on July 8, 2015. Laboratory analyses of this sample were completed in August. The analytical results and validation report for this sample are provided in Attachment 3.

Next Reporting Period – Anticipated Actions, Issues and Schedule

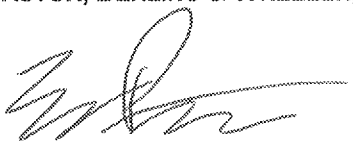
Routine Site Monitoring activities will continue on a bi-weekly (twice per week) basis. Additional Site activities anticipated for September 2015 include: (1) pump down responses, as needed; and (2) continued performance of equipment "early action" activities to address residual waste material in Equipment Items EQ-02, EQ-07 thru EQ-10, and EQ-29.

The PRP Group has requested assistance from the City of Pasadena (and EPA) to identify potential additional mechanisms for closing off apparent hydraulic connections from former Vince Bayou Wastewater Treatment Plant process units on the MCC East Property to Lift Station No. 1 as a means of reducing the potential for overflows from the lift station that may result from stormwater inflow into those units.

Thank you for the opportunity to submit this progress report. Please contact us if you have any questions or comments.

Sincerely,

PASTOR, BEHLING & WHEELER, LLC



Eric F. Pastor, P.E.
Principal Engineer
eric.pastor@pbwllc.com
512.671.3434

Attachments

Attachment 1 – Site Conditions Checklists
Attachment 2 – August 2015 Intergulf Shipping Manifests
Attachment 3 - Analytical and Validation Reports – EQ-07 Liquid Sample

Attachment 1

Site Conditions Checklists

USOR-MCC Bi-Weekly Site Monitoring Checklist Date: 08/03/2015

General Information

Day & Date: MONDAY, 08/03/2015

Arrival Time: 07:00

Departure Time: 09:00

Type of Visit: ✓ Routine _____ Unscheduled

Site Inspection Personnel:

J. GUZMAN (RAMBOLL ENVIRON)

L. NGUYEN (RAMBOLL ENVIRON)

Weather Conditions During Site Visit:

HOT, HUMID, SUNNY

Comments (if any):

INTERGULF REMOVED APPROXIMATELY 2,500 GALLONS FROM FRAC TANK AIL#5B, LOCATED AT USOR#3, AND 2,500 GALLONS FROM NORTH TANK FARM SECONDARY CONTAINMENT FOR OFF-SITE DISPOSAL AT INTERGULF'S PASADENA, TEXAS FACILITY.

USOR-MCC Bi-Weekly Site Monitoring Checklist Date: 08/03/2015

Weather Forecast and Notable Weather Elements:

General Forecast

MOSTLY SUNNY IN THE MORNING THEN PARTLY CLOUDY WITH A SLIGHT CHANCE OF SHOWERS AND THUNDERSTORMS IN THE AFTERNOON

7-Day Forecast at a Glance

Day	Day of Site Visit	Expected Low/High Temp	Expected Rain Chances	Expected Rain Amount (if known)	Expected Wind Speed and Direction
SUNDAY	☐	80/96	10%	N/A	N/A
MONDAY	☒	79/95	20%	0.00 IN	5-10MPH, N
TUESDAY	☐	79/95	20%	0.00 IN	10-15MPH, S
WEDNESDAY	☐	79/94	10%	0.00 IN	10-15MPH, S
THURSDAY	☐	80/96	10%	0.00 IN	N/A
FRIDAY	☐	80/96	10%	0.00 IN	N/A
SATURDAY	☐	80/96	10%	0.00 IN	N/A

Source: Tabular State Forecast for Southeast Texas of the National Weather Service for Houston/Galveston Texas (http://www.srh.noaa.gov/hgx/?n=forecasts)

Long Term Outlook

A WEAK AREA OF LOW PRESSURE LOCATED OVER NORTH-CENTRAL FLORIDA MOVING NORTHEASTWARD AT 5-10 MPH AND HAS 10% CHANCE OF ~~TROPICAL~~ UN FORMATION OVER THE NEXT 5 DAYS

USOR-MCC Bi-Weekly Site Monitoring Checklist

Date: 08/03/2015

USOR Property

Site and Perimeter Conditions

(circle one)

- [X] Any Locks Missing? Yes (No)
- [X] Any Gates Damaged, Not Functional or Not Closed? Yes (No)
- [X] Any Fence Damage Since Previous Site Visit? Yes (No)
- [X] Any Evidence of Vandalism/Trespassing? Yes (No)
- [X] Have Other Physical Conditions Changed? Yes (No)

(Explain all "Yes" answers below)

General Observations

- [X] Any Evidence of Staining? Yes (No)
- [X] Any Change to Existing Stained Areas? Yes (No)
- [X] Any Evidence of Off-Site Staining? Yes (No)
- [X] Any Odor Observed Emanating from the Site? Yes (No)

(Explain all "Yes" answers below)

ASTs

- [X] Any Evidence of Vandalism/Trespassing? Yes (No)
- [X] Any Weeping or Dripping Tanks or Valves? Yes (No)
- [X] Have Other Physical Conditions Changed? Yes (No)

(Explain all "Yes" answers below)

Drum/Tote Storage Area

Not Applicable – Drums/Totes Removed as of January 2015

Roll-Off Boxes

Not Applicable – Roll-Off Boxes Emptied as of April 2015

Freeboard Measurements

North Tank Farm Secondary Containment	ft 14 inches
South Tank Farm Secondary Containment	ft 12 inches
Sump 34 (estimated)	ft 35 inches
Sump 35	ft 35 inches
Sump 36	ft 36 inches
Bay 45	ft 15 inches
Bay 48	ft 22 inches

USOR-MCC Bi-Weekly Site Monitoring Checklist Date: 08/03/2015

Any freeboard levels < 6 inches from the top of the containment? Yes (No)

If Yes, has the Project Coordinator been notified? Yes No (N/A)

Potential for Off-Site Migration

Containment Pond Freeboard less than 2 feet (estimated) Yes (No)

Bioreactor (not applicable – Bioreactor removed as of April 2014)

If Yes, has the Project Coordinator been notified? Yes No (N/A)

Issues for Potential Corrective Action

NONE

USOR-MCC Bi-Weekly Site Monitoring Checklist

Date: 08/03/2015

MCC West Property

Site and Perimeter Conditions

(circle one)

- [X] Any Locks Missing? Yes (No)
- [X] Any Gates Damaged, Not Functional or Not Closed ? Yes (No)
- [X] Any Fence Damage Since Previous Site Visit? Yes (No)
- [X] Any Containment Structures Leaking? Yes (No)
- [X] Have Other Physical Conditions Changed? Yes (No)

(Explain all "Yes" answers below)

General Observations

- [X] Any Evidence of Staining? Yes (No)
- [X] Any Change to Existing Stained Areas? Yes (No)
- [X] Any Evidence of Off-Site Staining? Yes (No)
- [X] Any Odor Observed Emanating from the Site? Yes (No)

(Explain all "Yes" answers below)

Lift Stations #2 and #3

- [X] Any Evidence of Vandalism/Trespassing? Yes (No)
- [X] Any Caps/Lids Damaged, Missing or Not Closed? Yes (No)
- [X] Have Other Physical Conditions Changed? Yes (No)

(Explain all "Yes" answers below)

Potential for Off-Site Migration

Aeration Basin (Final Clarifier) Yes (No)

Primary Clarifier Yes (No)

High Rate Trickling Filter Yes (No)

If Yes, has the Project Coordinator been notified? **Yes** **No** (N/A)

Issues for Potential Corrective Action

NONE

USOR-MCC Bi-Weekly Site Monitoring Checklist Date: 08/03/2015

MCC East Property

Site and Perimeter Conditions (circle one)

- ☒ Any Locks Missing? Yes (No)
- ☒ Any Gates Damaged, Not Functional or Not Closed? Yes (No)
- ☒ Any Fence Damage Since Previous Site Visit? Yes (No)
- ☒ Any Containment Structures Leaking? Yes (No)
- ☒ Have Other Physical Conditions Changed? Yes (No)

(Explain all "Yes" answers below)

General Observations

- ☒ Any Evidence of Staining? Yes (No)
- ☒ Any Change to Existing Stained Areas? Yes (No)
- ☒ Any Evidence of Off-Site Staining? Yes (No)
- ☒ Any Odor Observed Emanating from the Site? Yes (No)

(Explain all "Yes" answers below)

Pump Control Room & Lift Station #1

- ☒ Any Evidence of Vandalism/Trespassing? Yes (No)
- ☒ Any Caps/Lids Damaged, Missing or Not Closed? Yes (No)
- ☒ Have Other Physical Conditions Changed? Yes (No)

(Explain all "Yes" answers below)

Freeboard Measurements

Chlorine Contact Tank ____ ft 29 inches

Any freeboard levels < 6 inches from the top of the containment? **Yes** (No)

If Yes, has the Project Coordinator been notified? **Yes** **No** (N/A)

Potential for Off-Site Migration

Lift Station #1	Yes	(No)
Primary Clarifier #1	Yes	(No)
Primary Clarifier #2	Yes	(No)
Oxygen Digester #1	Yes	(No)
Oxygen Digester #2	Yes	(No)
Oxygen Activated Sludge Tank	Yes	(No)
Former Sand Filter	Yes	(No)
Aerobic Digester	Yes	(No)
Gravity Thickener	Yes	(No)

If Yes, has the Project Coordinator been notified? Yes No (N/A)

Issues for Potential Corrective Action

NONE

USOR-MCC Bi-Weekly Site Monitoring Checklist

Date: 08/03/2015

Summary of Photographs Taken

Photo File Name = PXXX-08032015 **(P#-MMDDYYYY)**

NONE

Photo Page 1

USOR-MCC Bi-Weekly Site Monitoring Checklist

Date: 08/03/2015

Site Monitoring Explanations

USOR

- NONE

MCC EAST

- NONE

MCC WEST

- NONE

USOR-MCC Bi-Weekly Site Monitoring Checklist Date: 08/06/2015

General Information

Day & Date: THURSDAY, 08/06/2015

Arrival Time: 07:00

Departure Time: 08:00

Type of Visit: ✓ Routine _____ Unscheduled

Site Inspection Personnel:

J. PENNINGTON (RAMBOLL ENVIRON)

L. NGUYEN (RAMBOLL ENVIRON)

J. PATTERSON (WESTON)

Weather Conditions During Site Visit:

HOT, HUMID

Comments (if any):

Weather Forecast and Notable Weather Elements:

General Forecast

PARTLY CLOUDY EARLY IN THE MORNING THEN BECOMING MOSTLY SUNNY

7-Day Forecast at a Glance

Day	Day of Site Visit	Expected Low/High Temp	Expected Rain Chances	Expected Rain Amount (if known)	Expected Wind Speed and Direction
SUNDAY	☐	79/98	10%	0.00 IN	N/A
MONDAY	☐	80/98	10%	0.00 IN	N/A
TUESDAY	☐	79/98	10%	0.00 IN	N/A
WEDNESDAY	☐	81/98	20%	N/A	N/A
THURSDAY	☒	80/95	10%	0.00 IN	10-15 MPH, S
FRIDAY	☐	80/96	10%	0.001 N	10-15MPH, S
SATURDAY	☐	80/97	10%	0.001 N	5-10 MPH, SW

Source: Tabular State Forecast for Southeast Texas of the National Weather Service for Houston/Galveston Texas (http://www.srh.noaa.gov/hgx/?n=forecasts)

Long Term Outlook

TROPICAL CYCLONE FORMATION IS NOT EXPECTED DURING THE NEXT 5 DAYS.

USOR-MCC Bi-Weekly Site Monitoring Checklist **Date:** 08/06/2015

USOR Property

Site and Perimeter Conditions

(circle one)

- [X] Any Locks Missing? Yes (No)
- [X] Any Gates Damaged, Not Functional or Not Closed? Yes (No)
- [X] Any Fence Damage Since Previous Site Visit? Yes (No)
- [X] Any Evidence of Vandalism/Trespassing? Yes (No)
- [X] Have Other Physical Conditions Changed? Yes (No)

(Explain all "Yes" answers below)

General Observations

- [X] Any Evidence of Staining? Yes (No)
- [X] Any Change to Existing Stained Areas? Yes (No)
- [X] Any Evidence of Off-Site Staining? Yes (No)
- [X] Any Odor Observed Emanating from the Site? Yes (No)

(Explain all "Yes" answers below)

ASTs

- [X] Any Evidence of Vandalism/Trespassing? Yes (No)
- [X] Any Weeping or Dripping Tanks or Valves? Yes (No)
- [X] Have Other Physical Conditions Changed? Yes (No)

(Explain all "Yes" answers below)

Drum/Tote Storage Area

Not Applicable – Drums/Totes Removed as of January 2015

Roll-Off Boxes

Not Applicable – Roll-Off Boxes Emptied as of April 2015

Freeboard Measurements

North Tank Farm Secondary Containment	ft 14 inches
South Tank Farm Secondary Containment	ft 13 inches
Sump 34 (estimated)	ft 36 inches
Sump 35	ft 36 inches
Sump 36	ft 36 inches
Bay 45	ft 15 inches
Bay 48	ft 22 inches

Any freeboard levels < 6 inches from the top of the containment? Yes (No)

If Yes, has the Project Coordinator been notified? Yes No (N/A)

Potential for Off-Site Migration

Containment Pond Freeboard less than 2 feet (estimated) Yes (No)

Bioreactor (not applicable – Bioreactor removed as of April 2014)

If Yes, has the Project Coordinator been notified? Yes No (N/A)

Issues for Potential Corrective Action

NONE

USOR-MCC Bi-Weekly Site Monitoring Checklist Date: 08/06/2015

MCC West Property

Site and Perimeter Conditions (circle one)

☒ Any Locks Missing?	Yes	(No)
☒ Any Gates Damaged, Not Functional or Not Closed ?	Yes	(No)
☒ Any Fence Damage Since Previous Site Visit?	Yes	(No)
☒ Any Containment Structures Leaking?	Yes	(No)
☒ Have Other Physical Conditions Changed?	Yes	(No)

(Explain all "Yes" answers below)

General Observations

☒ Any Evidence of Staining?	Yes	(No)
☒ Any Change to Existing Stained Areas?	Yes	(No)
☒ Any Evidence of Off-Site Staining?	Yes	(No)
☒ Any Odor Observed Emanating from the Site?	Yes	(No)

(Explain all "Yes" answers below)

Lift Stations #2 and #3

☒ Any Evidence of Vandalism/Trespassing?	Yes	(No)
☒ Any Caps/Lids Damaged, Missing or Not Closed?	Yes	(No)
☒ Have Other Physical Conditions Changed?	Yes	(No)

(Explain all "Yes" answers below)

Potential for Off-Site Migration

Aeration Basin (Final Clarifier)	Yes	(No)
Primary Clarifier	Yes	(No)
High Rate Trickling Filter	Yes	(No)

If Yes, has the Project Coordinator been notified? **Yes** **No** (N/A)

Issues for Potential Corrective Action

NONE

USOR-MCC Bi-Weekly Site Monitoring Checklist **Date:** 08/06/2015

MCC East Property

Site and Perimeter Conditions (circle one)

- ☒ Any Locks Missing? Yes (No)
- ☒ Any Gates Damaged, Not Functional or Not Closed? Yes (No)
- ☒ Any Fence Damage Since Previous Site Visit? Yes (No)
- ☒ Any Containment Structures Leaking? Yes (No)
- ☒ Have Other Physical Conditions Changed? Yes (No)

(Explain all "Yes" answers below)

General Observations

- ☒ Any Evidence of Staining? Yes (No)
- ☒ Any Change to Existing Stained Areas? Yes (No)
- ☒ Any Evidence of Off-Site Staining? Yes (No)
- ☒ Any Odor Observed Emanating from the Site? Yes (No)

(Explain all "Yes" answers below)

Pump Control Room & Lift Station #1

- ☒ Any Evidence of Vandalism/Trespassing? Yes (No)
- ☒ Any Caps/Lids Damaged, Missing or Not Closed? Yes (No)
- ☒ Have Other Physical Conditions Changed? Yes (No)

(Explain all "Yes" answers below)

Freeboard Measurements

Chlorine Contact Tank _____ ft 29 inches

Any freeboard levels < 6 inches from the top of the containment? **Yes** (No)

If Yes, has the Project Coordinator been notified? **Yes** **No** (N/A)

Potential for Off-Site Migration

Lift Station #1 Yes (No)

Primary Clarifier #1 Yes (No)

Primary Clarifier #2 Yes (No)

Oxygen Digester #1 Yes (No)

Oxygen Digester #2 Yes (No)

Oxygen Activated Sludge Tank Yes (No)

Former Sand Filter Yes (No)

Aerobic Digester Yes (No)

Gravity Thickener Yes (No)

If Yes, has the Project Coordinator been notified? **Yes** **No** **(N/A)**

Issues for Potential Corrective Action

NONE

USOR-MCC Bi-Weekly Site Monitoring Checklist

Date: 08/06/2015

Summary of Photographs Taken

Photo File Name = PXXX-08062015 **(P#-MMDDYYYY)**

NONE

Photo Page 1

USOR-MCC Bi-Weekly Site Monitoring Checklist

Date: 08/06/2015

Site Monitoring Explanations

USOR

-NONE

MCC EAST

-NONE

MCC WEST

-NONE

USOR-MCC Bi-Weekly Site Monitoring Checklist Date: 08/10/2015

General Information

Day & Date: MONDAY, 08/10/2015

Arrival Time: 07:00

Departure Time: 07:40

Type of Visit: ✓ Routine _____ Unscheduled

Site Inspection Personnel:

J. PENNINGTON (RAMBOLL ENVIRON)
L. NGUYEN (RAMBOLL ENVIRON)

Weather Conditions During Site Visit:

CLEAR SKIES, WIND BLOWING FROM THE EAST

Comments (if any):

Date: 08/10/2015

Weather Forecast and Notable Weather Elements:

General Forecast

PARTLY CLOUDY EARLY IN THE MORNING THEN BECOMING MOSTLY SUNNY

7-Day Forecast at a Glance

Day	Day of Site Visit	Expected Low/High Temp	Expected Rain Chances	Expected Rain Amount (if known)	Expected Wind Speed and Direction
SUNDAY	☐	78/95	30%	NA	NA
MONDAY	☒	80/100	10%	0.001N	5-10MPH, W
TUESDAY	☐	80/100	20%	0.05IN	5MPH, NW
WEDNESDAY	☐	80/97	30%	0.08IN	5MPH, NW
THURSDAY	☐	80/96	20%	0.05IN	NA
FRIDAY	☐	79/97	10%	0.001N	NA
SATURDAY	☐	78/98	20%	NA	NA

Source: Tabular State Forecast for Southeast Texas of the National Weather Service for Houston/Galveston Texas (http://www.srh.noaa.gov/hgx/?n=forecasts)

Long Term Outlook

TROPICAL CYCLONE FORMATION IS NOT EXPECTED DURING THE NEXT 5 DAYS.

USOR-MCC Bi-Weekly Site Monitoring Checklist Date: 08/10/2015

USOR Property

Site and Perimeter Conditions (circle one)

☒ Any Locks Missing?	Yes	(No)
☒ Any Gates Damaged, Not Functional or Not Closed?	Yes	(No)
☒ Any Fence Damage Since Previous Site Visit?	Yes	(No)
☒ Any Evidence of Vandalism/Trespassing?	Yes	(No)
☒ Have Other Physical Conditions Changed?	Yes	(No)

(Explain all "Yes" answers below)

General Observations

☒ Any Evidence of Staining?	Yes	(No)
☒ Any Change to Existing Stained Areas?	Yes	(No)
☒ Any Evidence of Off-Site Staining?	Yes	(No)
☒ Any Odor Observed Emanating from the Site?	Yes	(No)

(Explain all "Yes" answers below)

ASTs

☒ Any Evidence of Vandalism/Trespassing?	Yes	(No)
☒ Any Weeping or Dripping Tanks or Valves?	Yes	(No)
☒ Have Other Physical Conditions Changed?	Yes	(No)

(Explain all "Yes" answers below)

Drum/Tote Storage Area

Not Applicable – Drums/Totes Removed as of January 2015

Roll-Off Boxes

Not Applicable – Roll-Off Boxes Emptied as of April 2015

Freeboard Measurements

North Tank Farm Secondary Containment	ft 16 inches
South Tank Farm Secondary Containment	ft 14 inches
Sump 34 (estimated)	ft 36 inches
Sump 35	ft 36 inches
Sump 36	ft 37 inches
Bay 45	ft 16 inches
Bay 48	ft 19 inches

USOR-MCC Bi-Weekly Site Monitoring Checklist Date: 08/10/2015

Any freeboard levels < 6 inches from the top of the containment? Yes (No)

If Yes, has the Project Coordinator been notified? Yes No (N/A)

Potential for Off-Site Migration

Containment Pond Freeboard less than 2 feet (estimated) Yes (No)

Bioreactor (not applicable – Bioreactor removed as of April 2014)

If Yes, has the Project Coordinator been notified? Yes No (N/A)

Issues for Potential Corrective Action

NONE

USOR-MCC Bi-Weekly Site Monitoring Checklist Date: 08/10/2015

MCC West Property

Site and Perimeter Conditions (circle one)

- ☒ Any Locks Missing? Yes (No)
- ☒ Any Gates Damaged, Not Functional or Not Closed ? Yes (No)
- ☒ Any Fence Damage Since Previous Site Visit? Yes (No)
- ☒ Any Containment Structures Leaking? Yes (No)
- ☒ Have Other Physical Conditions Changed? Yes (No)

(Explain all "Yes" answers below)

General Observations

- ☒ Any Evidence of Staining? Yes (No)
- ☒ Any Change to Existing Stained Areas? Yes (No)
- ☒ Any Evidence of Off-Site Staining? Yes (No)
- ☒ Any Odor Observed Emanating from the Site? Yes (No)

(Explain all "Yes" answers below)

Lift Stations #2 and #3

- ☒ Any Evidence of Vandalism/Trespassing? Yes (No)
- ☒ Any Caps/Lids Damaged, Missing or Not Closed? Yes (No)
- ☒ Have Other Physical Conditions Changed? Yes (No)

(Explain all "Yes" answers below)

Potential for Off-Site Migration

Aeration Basin (Final Clarifier) Yes (No)

Primary Clarifier Yes (No)

High Rate Trickling Filter Yes (No)

If Yes, has the Project Coordinator been notified? **Yes** **No** (N/A)

Issues for Potential Corrective Action

NONE

USOR-MCC Bi-Weekly Site Monitoring Checklist **Date:** 08/10/2015

MCC East Property

Site and Perimeter Conditions (circle one)

☒ Any Locks Missing?	Yes	(No)
☒ Any Gates Damaged, Not Functional or Not Closed?	Yes	(No)
☒ Any Fence Damage Since Previous Site Visit?	Yes	(No)
☒ Any Containment Structures Leaking?	Yes	(No)
☒ Have Other Physical Conditions Changed?	Yes	(No)

(Explain all "Yes" answers below)

General Observations

☒ Any Evidence of Staining?	Yes	(No)
☒ Any Change to Existing Stained Areas?	Yes	(No)
☒ Any Evidence of Off-Site Staining?	Yes	(No)
☒ Any Odor Observed Emanating from the Site?	Yes	(No)

(Explain all "Yes" answers below)

Pump Control Room & Lift Station #1

☒ Any Evidence of Vandalism/Trespassing?	Yes	(No)
☒ Any Caps/Lids Damaged, Missing or Not Closed?	Yes	(No)
☒ Have Other Physical Conditions Changed?	Yes	(No)

(Explain all "Yes" answers below)

Freeboard Measurements

Chlorine Contact Tank _____ ft 31 inches

Any freeboard levels < 6 inches from the top of the containment? **Yes** (No)

If Yes, has the Project Coordinator been notified? **Yes** **No** (N/A)

Potential for Off-Site Migration

Lift Station #1	Yes	(No)
Primary Clarifier #1	Yes	(No)
Primary Clarifier #2	Yes	(No)
Oxygen Digester #1	Yes	(No)
Oxygen Digester #2	Yes	(No)
Oxygen Activated Sludge Tank	Yes	(No)
Former Sand Filter	Yes	(No)
Aerobic Digester	Yes	(No)
Gravity Thickener	Yes	(No)

If Yes, has the Project Coordinator been notified? **Yes** **No** (N/A)

Issues for Potential Corrective Action

NONE

USOR-MCC Bi-Weekly Site Monitoring Checklist

Date: 08/10/2015

Summary of Photographs Taken

Photo File Name = PXX-08102015 **(P#-MMDDYYYY)**

NONE

USOR-MCC Bi-Weekly Site Monitoring Checklist

Date: 08/10/2015

Site Monitoring Explanations

USOR

-NONE

MCC EAST

-NONE

MCC WEST

-NONE

USOR-MCC Bi-Weekly Site Monitoring Checklist Date: 08/13/2015

General Information

Day & Date: THURSDAY, 08/13/2015

Arrival Time: 07:00

Departure Time: 08:00

Type of Visit: ✓ Routine ____ Unscheduled

Site Inspection Personnel:

A. BROWER (RAMBOLL ENVIRON)

L. NGUYEN (RAMBOLL ENVIRON)

Weather Conditions During Site Visit:

CLOUDY, NO WIND OBSERVED

Comments (if any):

Weather Forecast and Notable Weather Elements:

General Forecast

PARTLY CLOUDY. A 30% CHANCE OF SHOWERS AND THUNDERSTORMS LATE

7-Day Forecast at a Glance

Day	Day of Site Visit	Expected Low/High Temp	Expected Rain Chances	Expected Rain Amount (if known)	Expected Wind Speed and Direction
SUNDAY	☐	77/92	40%	0.13 IN	NA
MONDAY	☐	76/91	40%	NA	NA
TUESDAY	☐	77/93	30%	NA	NA
WEDNESDAY	☐	78/93	30%	NA	NA
THURSDAY	☒	80/98	30%	0.22 IN	5 MPH, W
FRIDAY	☐	80/98	20%	0.00 IN	5-10MPH, S
SATURDAY	☐	79/96	20%	0.03 IN	5-10MPH, SE

Source: Tabular State Forecast for Southeast Texas of the National Weather Service for Houston/Galveston Texas (http://www.srh.noaa.gov/hgx/?n=forecasts)

Long Term Outlook

TROPICAL CYCLONE FORMATION IS NOT EXPECTED DURING THE NEXT 5 DAYS.

USOR-MCC Bi-Weekly Site Monitoring Checklist Date: 08/13/2015

USOR Property

Site and Perimeter Conditions (circle one)

- ☒ Any Locks Missing? Yes (No)
- ☒ Any Gates Damaged, Not Functional or Not Closed? Yes (No)
- ☒ Any Fence Damage Since Previous Site Visit? Yes (No)
- ☒ Any Evidence of Vandalism/Trespassing? Yes (No)
- ☒ Have Other Physical Conditions Changed? Yes (No)

(Explain all "Yes" answers below)

General Observations

- ☒ Any Evidence of Staining? Yes (No)
- ☒ Any Change to Existing Stained Areas? Yes (No)
- ☒ Any Evidence of Off-Site Staining? Yes (No)
- ☒ Any Odor Observed Emanating from the Site? Yes (No)

(Explain all "Yes" answers below)

ASTs

- ☒ Any Evidence of Vandalism/Trespassing? Yes (No)
- ☒ Any Weeping or Dripping Tanks or Valves? Yes (No)
- ☒ Have Other Physical Conditions Changed? Yes (No)

(Explain all "Yes" answers below)

Drum/Tote Storage Area

Not Applicable – Drums/Totes Removed as of January 2015

Roll-Off Boxes

Not Applicable – Roll-Off Boxes Emptied as of April 2015

Freeboard Measurements

North Tank Farm Secondary Containment	ft 12 inches
South Tank Farm Secondary Containment	ft 11.5 inches
Sump 34 (estimated)	ft 35 inches
Sump 35	ft 35 inches
Sump 36	ft 28 inches
Bay 45	ft 14 inches
Bay 48	ft 19 inches

USOR-MCC Bi-Weekly Site Monitoring Checklist Date: 08/13/2015

Any freeboard levels < 6 inches from the top of the containment? Yes (No)

If Yes, has the Project Coordinator been notified? Yes No (N/A)

Potential for Off-Site Migration

Containment Pond Freeboard less than 2 feet (estimated) Yes (No)

Bioreactor (not applicable – Bioreactor removed as of April 2014)

If Yes, has the Project Coordinator been notified? Yes No (N/A)

Issues for Potential Corrective Action

NONE

USOR-MCC Bi-Weekly Site Monitoring Checklist **Date:** 08/13/2015

MCC West Property

Site and Perimeter Conditions (circle one)

☒ Any Locks Missing?	Yes	(No)
☒ Any Gates Damaged, Not Functional or Not Closed ?	Yes	(No)
☒ Any Fence Damage Since Previous Site Visit?	Yes	(No)
☒ Any Containment Structures Leaking?	Yes	(No)
☒ Have Other Physical Conditions Changed? SEE EXPLANATIONS PAGE →	(Yes)	No

(Explain all "Yes" answers below)

General Observations

☒ Any Evidence of Staining?	Yes	(No)
☒ Any Change to Existing Stained Areas?	Yes	(No)
☒ Any Evidence of Off-Site Staining?	Yes	(No)
☒ Any Odor Observed Emanating from the Site?	Yes	(No)

(Explain all "Yes" answers below)

Lift Stations #2 and #3

☒ Any Evidence of Vandalism/Trespassing?	Yes	(No)
☒ Any Caps/Lids Damaged, Missing or Not Closed?	Yes	(No)
☒ Have Other Physical Conditions Changed?	Yes	(No)

(Explain all "Yes" answers below)

Potential for Off-Site Migration

Aeration Basin (Final Clarifier)	Yes	(No)
Primary Clarifier	Yes	(No)
High Rate Trickling Filter	Yes	(No)

If Yes, has the Project Coordinator been notified? **Yes** **No** (N/A)

Issues for Potential Corrective Action

NONE

USOR-MCC Bi-Weekly Site Monitoring Checklist Date: 08/13/2015

MCC East Property

Site and Perimeter Conditions (circle one)

- [X] Any Locks Missing? Yes (No)
- [X] Any Gates Damaged, Not Functional or Not Closed? Yes (No)
- [X] Any Fence Damage Since Previous Site Visit? Yes (No)
- [X] Any Containment Structures Leaking? Yes (No)
- [X] Have Other Physical Conditions Changed? Yes (No)

(Explain all "Yes" answers below)

General Observations

- [X] Any Evidence of Staining? Yes (No)
- [X] Any Change to Existing Stained Areas? Yes (No)
- [X] Any Evidence of Off-Site Staining? Yes (No)
- [X] Any Odor Observed Emanating from the Site? Yes (No)

(Explain all "Yes" answers below)

Pump Control Room & Lift Station #1

- [X] Any Evidence of Vandalism/Trespassing? Yes (No)
- [X] Any Caps/Lids Damaged, Missing or Not Closed? Yes (No)
- [X] Have Other Physical Conditions Changed? Yes (No)

(Explain all "Yes" answers below)

Freeboard Measurements

Chlorine Contact Tank ____ft 30 inches

Any freeboard levels < 6 inches from the top of the containment? **Yes** (No)

If Yes, has the Project Coordinator been notified? **Yes** **No** (N/A)

Potential for Off-Site Migration

Lift Station #1	Yes	(No)
Primary Clarifier #1	Yes	(No)
Primary Clarifier #2	Yes	(No)
Oxygen Digester #1	Yes	(No)
Oxygen Digester #2	Yes	(No)
Oxygen Activated Sludge Tank	Yes	(No)
Former Sand Filter	Yes	(No)
Aerobic Digester	Yes	(No)
Gravity Thickener	Yes	(No)

If Yes, has the Project Coordinator been notified? Yes No (N/A)

Issues for Potential Corrective Action

NONE

USOR-MCC Bi-Weekly Site Monitoring Checklist

Date: 08/13/2015

Summary of Photographs Taken

Photo File Name = PXXX-08132015 **(P#-MMDDYYYY)**

NONE

USOR-MCC Bi-Weekly Site Monitoring Checklist

Date: 08/13/2015

Site Monitoring Explanations

USOR

- NONE

MCC EAST

- NONE

MCC WEST

- TRICKLE FILTER VAULT # OBSERVED OVERFLOWING. NO SHEEN OBSERVED.
- HEADWORKS PIPE OBSERVED DRIPPING. NO SHEEN OBSERVED.

USOR-MCC Bi-Weekly Site Monitoring Checklist Date: 08/17/2015

General Information

Day & Date: MONDAY, 08/17/2015

Arrival Time: 07:30

Departure Time: 08:20

Type of Visit: ✓ Routine _____ Unscheduled

Site Inspection Personnel:

J. ROSS (RAMBOLL ENVIRON)

L. NGUYEN (RAMBOLL ENVIRON)

Weather Conditions During Site Visit:

CLEAR SKIES, NO WIND OBSERVED

Comments (if any):

Weather Forecast and Notable Weather Elements:

General Forecast

PARTLY CLOUDY UNTIL AFTERNOON THEN BECOMING MOSTLY CLOUDY. A SLIGHT CHANCE OF SHOWERS AND THUNDERSTORMS LATE

7-Day Forecast at a Glance

Day	Day of Site Visit	Expected Low/High Temp	Expected Rain Chances	Expected Rain Amount (if known)	Expected Wind Speed and Direction
SUNDAY	☐	79/94	20%	NA	NA
MONDAY	☒	78/94	60%	0.17 IN	5-10 MPH, SE
TUESDAY	☐	78/94	40%	0.24 IN	10-15 MPH, S
WEDNESDAY	☐	80/91	60%	0.42 IN	10-15 MPH, S
THURSDAY	☐	79/90	60%	0.60 IN	NA
FRIDAY	☐	78/92	50%	0.36 IN	NA
SATURDAY	☐	79/94	30%	0.02 IN	NA

Source: Tabular State Forecast for Southeast Texas of the National Weather Service for Houston/Galveston Texas (http://www.srh.noaa.gov/hgx/?n=forecasts)

Long Term Outlook

AREA OF LOW PRESSURE ~~ASSOCIATED~~ UN- LOCATED SEVERAL HUNDRED MILES SOUTHWEST OF THE CAPE VERDE ISLANDS MOVING WESTWARD NEAR 15 MPH AND HAS 70% CHANCE OF FORMATION OVER THE NEXT 5 DAYS.

USOR-MCC Bi-Weekly Site Monitoring Checklist Date: 08/19/2015

USOR Property

Site and Perimeter Conditions (circle one)

- ☒ Any Locks Missing? Yes (No)
- ☒ Any Gates Damaged, Not Functional or Not Closed? Yes (No)
- ☒ Any Fence Damage Since Previous Site Visit? Yes (No)
- ☒ Any Evidence of Vandalism/Trespassing? Yes (No)
- ☒ Have Other Physical Conditions Changed? Yes (No)

(Explain all "Yes" answers below)

General Observations

- ☒ Any Evidence of Staining? Yes (No)
- ☒ Any Change to Existing Stained Areas? Yes (No)
- ☒ Any Evidence of Off-Site Staining? Yes (No)
- ☒ Any Odor Observed Emanating from the Site? Yes (No)

(Explain all "Yes" answers below)

ASTs

- ☒ Any Evidence of Vandalism/Trespassing? Yes (No)
- ☒ Any Weeping or Dripping Tanks or Valves? Yes (No)
- ☒ Have Other Physical Conditions Changed? Yes (No)

(Explain all "Yes" answers below)

Drum/Tote Storage Area

Not Applicable – Drums/Totes Removed as of January 2015

Roll-Off Boxes

Not Applicable – Roll-Off Boxes Emptied as of April 2015

Freeboard Measurements

North Tank Farm Secondary Containment	ft 12 inches
South Tank Farm Secondary Containment	ft 11.5 inches
Sump 34 (estimated)	ft 36 inches
Sump 35	ft 36 inches
Sump 36	ft 28 inches
Bay 45	ft 14 inches
Bay 48	ft 19 inches

USOR-MCC Bi-Weekly Site Monitoring Checklist Date: 08/17/2015

Any freeboard levels < 6 inches from the top of the containment? Yes (No)

If Yes, has the Project Coordinator been notified? Yes No (N/A)

Potential for Off-Site Migration

Containment Pond Freeboard less than 2 feet (estimated) Yes (No)

Bioreactor (not applicable – Bioreactor removed as of April 2014)

If Yes, has the Project Coordinator been notified? Yes No (N/A)

Issues for Potential Corrective Action

NONE

USOR-MCC Bi-Weekly Site Monitoring Checklist

Date: 08/17/2015

MCC West Property

Site and Perimeter Conditions

(circle one)

Any Locks Missing?	Yes	(No)
Any Gates Damaged, Not Functional or Not Closed ?	Yes	(No)
Any Fence Damage Since Previous Site Visit?	Yes	(No)
Any Containment Structures Leaking?	Yes	(No)
Have Other Physical Conditions Changed?	Yes	(No)

(Explain all "Yes" answers below)

General Observations

Any Evidence of Staining?	Yes	(No)
Any Change to Existing Stained Areas?	Yes	(No)
Any Evidence of Off-Site Staining?	Yes	(No)
Any Odor Observed Emanating from the Site?	Yes	(No)

(Explain all "Yes" answers below)

Lift Stations #2 and #3

Any Evidence of Vandalism/Trespassing?	Yes	(No)
Any Caps/Lids Damaged, Missing or Not Closed?	Yes	(No)
Have Other Physical Conditions Changed?	Yes	(No)

(Explain all "Yes" answers below)

Potential for Off-Site Migration

Aeration Basin (Final Clarifier)	Yes	(No)
Primary Clarifier	Yes	(No)
High Rate Trickling Filter	Yes	(No)

If Yes, has the Project Coordinator been notified? **Yes** **No** (N/A)

Issues for Potential Corrective Action

NONE

USOR-MCC Bi-Weekly Site Monitoring Checklist Date: 08/17/2015

MCC East Property

Site and Perimeter Conditions (circle one)

- Any Locks Missing? Yes (No)
- Any Gates Damaged, Not Functional or Not Closed? Yes (No)
- Any Fence Damage Since Previous Site Visit? Yes (No)
- Any Containment Structures Leaking? Yes (No)
- Have Other Physical Conditions Changed? Yes (No)

(Explain all "Yes" answers below)

General Observations

- Any Evidence of Staining? Yes (No)
- Any Change to Existing Stained Areas? Yes (No)
- Any Evidence of Off-Site Staining? Yes (No)
- Any Odor Observed Emanating from the Site? Yes (No)

(Explain all "Yes" answers below)

Pump Control Room & Lift Station #1

- Any Evidence of Vandalism/Trespassing? Yes (No)
- Any Caps/Lids Damaged, Missing or Not Closed? Yes (No)
- Have Other Physical Conditions Changed? Yes (No)

(Explain all "Yes" answers below)

Freeboard Measurements

Chlorine Contact Tank _____ft 30 inches

Any freeboard levels < 6 inches from the top of the containment? **Yes** (No)

If Yes, has the Project Coordinator been notified? **Yes** **No** (N/A)

Potential for Off-Site Migration

Lift Station #1	Yes	(No)
Primary Clarifier #1	Yes	(No)
Primary Clarifier #2	Yes	(No)
Oxygen Digester #1	Yes	(No)
Oxygen Digester #2	Yes	(No)
Oxygen Activated Sludge Tank	Yes	(No)
Former Sand Filter	Yes	(No)
Aerobic Digester	Yes	(No)
Gravity Thickener	Yes	(No)

If Yes, has the Project Coordinator been notified? Yes No (N/A)

Issues for Potential Corrective Action

NONE

USOR-MCC Bi-Weekly Site Monitoring Checklist

Date: 08/17/2015

Summary of Photographs Taken

Photo File Name = PXXX-08172015 **(P#-MMDDYYYY)**

NONE

Date: 08/19/2015

Site Monitoring Explanations

USOR

- NONE

MCC EAST

- NONE

MCC WEST

- NONE

USOR-MCC Bi-Weekly Site Monitoring Checklist

Date: 08/20/2015

General Information

Day & Date: THURSDAY, 08/20/2015

Arrival Time: 07:00

Departure Time: 09:00

Type of Visit: ✓ Routine ____ Unscheduled

Site Inspection Personnel:

J. PENNINGTON (RAMBOLL ENVIRON)

L. NGUYEN (RAMBOLL ENVIRON)

Weather Conditions During Site Visit:

OVERCAST, RAIN, WIND BLOWING FROM THE NORTH

Comments (if any):

INTERGULF REMOVED APPROXIMATELY 5,100 GALLONS FROM SUMP 36 FOR OFF-SITE DISPOSAL AT INTERGULF'S PASADENA, TEXAS FACILITY.

Date: 08/20/2015

Weather Forecast and Notable Weather Elements:

General Forecast

SHOWERS AND THUNDERSTORMS

7-Day Forecast at a Glance

Day	Day of Site Visit	Expected Low/High Temp	Expected Rain Chances	Expected Rain Amount (if known)	Expected Wind Speed and Direction
SUNDAY	☐	79/94	20%	0.00 IN	NA
MONDAY	☐	78/95	20%	0.001N	NA
TUESDAY	☐	78/95	30%	0.001N	NA
WEDNESDAY	☐	77/95	20%	NA	NA
THURSDAY	☒	79/87	90%	0.65 IN	5-10MPH,S
FRIDAY	☐	79/92	30%	0.12 IN	5-10MPH,S
SATURDAY	☐	79/93	30%	0.06 IN	5-10 MPH,S

Source: Tabular State Forecast for Southeast Texas of the National Weather Service for Houston/Galveston Texas (http://www.srh.noaa.gov/hgx/?n=forecasts)

Long Term Outlook

TROPICAL STORM DANNY IS LOCATED OVER THE CENTRAL TROPICAL ATLANTIC ABOUT A THOUSAND MILES EAST OF THE LESSER ANTILLES.

USOR-MCC Bi-Weekly Site Monitoring Checklist Date: 08/20/2015

USOR Property

Site and Perimeter Conditions

(circle one)

- ☒ Any Locks Missing? Yes (No)
- ☒ Any Gates Damaged, Not Functional or Not Closed? Yes (No)
- ☒ Any Fence Damage Since Previous Site Visit? Yes (No)
- ☒ Any Evidence of Vandalism/Trespassing? Yes (No)
- ☒ Have Other Physical Conditions Changed? Yes (No)

(Explain all "Yes" answers below)

General Observations

- ☒ Any Evidence of Staining? Yes (No)
- ☒ Any Change to Existing Stained Areas? Yes (No)
- ☒ Any Evidence of Off-Site Staining? Yes (No)
- ☒ Any Odor Observed Emanating from the Site? Yes (No)

(Explain all "Yes" answers below)

ASTs

- ☒ Any Evidence of Vandalism/Trespassing? Yes (No)
- ☒ Any Weeping or Dripping Tanks or Valves? Yes (No)
- ☒ Have Other Physical Conditions Changed? Yes (No)

(Explain all "Yes" answers below)

Drum/Tote Storage Area

Not Applicable – Drums/Totes Removed as of January 2015

Roll-Off Boxes

Not Applicable – Roll-Off Boxes Emptied as of April 2015

Freeboard Measurements

North Tank Farm Secondary Containment	ft 12 inches
South Tank Farm Secondary Containment	ft 11 inches
Sump 34 (estimated)	ft 35 inches
Sump 35	ft 35 inches
Sump 36	ft 60 inches
Bay 45	ft 14 inches
Bay 48	ft 19 inches

USOR-MCC Bi-Weekly Site Monitoring Checklist Date: 08/20/2015

Any freeboard levels < 6 inches from the top of the containment? Yes (No)

If Yes, has the Project Coordinator been notified? Yes No (N/A)

Potential for Off-Site Migration

Containment Pond Freeboard less than 2 feet (estimated) Yes (No)

Bioreactor (not applicable – Bioreactor removed as of April 2014)

If Yes, has the Project Coordinator been notified? Yes No (N/A)

Issues for Potential Corrective Action

NONE

USOR-MCC Bi-Weekly Site Monitoring Checklist Date: 08/20/2015

MCC West Property

Site and Perimeter Conditions (circle one)

- ☒ Any Locks Missing? Yes (No)
- ☒ Any Gates Damaged, Not Functional or Not Closed ? Yes (No)
- ☒ Any Fence Damage Since Previous Site Visit? Yes (No)
- ☒ Any Containment Structures Leaking? Yes (No)
- ☒ Have Other Physical Conditions Changed? Yes (No)

(Explain all "Yes" answers below)

General Observations

- ☒ Any Evidence of Staining? Yes (No)
- ☒ Any Change to Existing Stained Areas? Yes (No)
- ☒ Any Evidence of Off-Site Staining? Yes (No)
- ☒ Any Odor Observed Emanating from the Site? Yes (No)

(Explain all "Yes" answers below)

Lift Stations #2 and #3

- ☒ Any Evidence of Vandalism/Trespassing? Yes (No)
- ☒ Any Caps/Lids Damaged, Missing or Not Closed? Yes (No)
- ☒ Have Other Physical Conditions Changed? Yes (No)

(Explain all "Yes" answers below)

Potential for Off-Site Migration

Aeration Basin (Final Clarifier) Yes (No)

Primary Clarifier Yes (No)

High Rate Trickling Filter Yes (No)

If Yes, has the Project Coordinator been notified? **Yes** **No** (N/A)

Issues for Potential Corrective Action

NONE

USOR-MCC Bi-Weekly Site Monitoring Checklist Date: 08/20/2015

MCC East Property

Site and Perimeter Conditions (circle one)

☒ Any Locks Missing?	Yes	(No)
☒ Any Gates Damaged, Not Functional or Not Closed?	Yes	(No)
☒ Any Fence Damage Since Previous Site Visit?	Yes	(No)
☒ Any Containment Structures Leaking?	Yes	(No)
☒ Have Other Physical Conditions Changed?	Yes	(No)

(Explain all "Yes" answers below)

General Observations

☒ Any Evidence of Staining?	Yes	(No)
☒ Any Change to Existing Stained Areas?	Yes	(No)
☒ Any Evidence of Off-Site Staining?	Yes	(No)
☒ Any Odor Observed Emanating from the Site?	Yes	(No)

(Explain all "Yes" answers below)

Pump Control Room & Lift Station #1

☒ Any Evidence of Vandalism/Trespassing?	Yes	(No)
☒ Any Caps/Lids Damaged, Missing or Not Closed?	Yes	(No)
☒ Have Other Physical Conditions Changed?	Yes	(No)

(Explain all "Yes" answers below)

Freeboard Measurements

Chlorine Contact Tank _____ft 29 inches

Any freeboard levels < 6 inches from the top of the containment? **Yes** (**No**)

If Yes, has the Project Coordinator been notified? **Yes** **No** (**N/A**)

Potential for Off-Site Migration

Lift Station #1	Yes	(No)
Primary Clarifier #1	Yes	(No)
Primary Clarifier #2	Yes	(No)
Oxygen Digester #1	Yes	(No)
Oxygen Digester #2	Yes	(No)
Oxygen Activated Sludge Tank	Yes	(No)
Former Sand Filter	Yes	(No)
Aerobic Digester	Yes	(No)
Gravity Thickener	Yes	(No)

If Yes, has the Project Coordinator been notified? Yes No (N/A)

Issues for Potential Corrective Action

NONE

USOR-MCC Bi-Weekly Site Monitoring Checklist

Date: 08/20/2015

Summary of Photographs Taken

Photo File Name = PXXX - 08202015 **(P#-MMDDYYYY)**

NONE

USOR-MCC Bi-Weekly Site Monitoring Checklist Date: 08/20/2015

Site Monitoring Explanations

USOR

-NONE

MCC EAST

-NONE

MCC WEST

-NONE

USOR-MCC Bi-Weekly Site Monitoring Checklist

Date: 08/24/2015

General Information

Day & Date: MONDAY, 08/24/2015

Arrival Time: 07:00

Departure Time: 08:15

Type of Visit: ✓ Routine _____ Unscheduled

Site Inspection Personnel:

J. PENNINGTON (RAMBOLL ENVIRON)

L. NGUYEN (RAMBOLL ENVIRON)

Weather Conditions During Site Visit:

CLEAR SKIES, NO WIND OBSERVED

Comments (if any):

INTERGULF REMOVED APPROXIMATELY 5,087 GALLONS FROM MCC WEST PRIMARY CLARIFIER FOR OFF-SITE DISPOSAL AT INTERGULFS PASADENA, TEXAS FACILITY.

Weather Forecast and Notable Weather Elements:

General Forecast

PARTLY CLOUDY WITH A 20% CHANCE OF SHOWERS AND THUNDERSTORMS IN THE AFTERNOON.

7-Day Forecast at a Glance

Day	Day of Site Visit	Expected Low/High Temp	Expected Rain Chances	Expected Rain Amount (if known)	Expected Wind Speed and Direction
SUNDAY	☐	74/90	20%	NA	NA
MONDAY	☒	78/97	20%	0.02 IN	5 MPH, NW
TUESDAY	☐	78/96	30%	0.13 IN	5MPH, NE
WEDNESDAY	☐	75/94	20%	0.00 IN	5-10MPH, E
THURSDAY	☐	73/92	10%	0.001N	NA
FRIDAY	☐	72/92	0%	0.001N	NA
SATURDAY	☐	74/91	10%	0.001N	NA

Source: Tabular State Forecast for Southeast Texas of the National Weather Service for Houston/Galveston Texas (http://www.srh.noaa.gov/hgx/?n=forecasts)

Long Term Outlook

A LOW PRESSURE SYSTEM LOCATED ABOUT 1250 MILES EAST OF THE SOUTHERN LESSER ANTILLES MOVING WESTWARD AT 20 MPH AND HAS A 90% CHANCE OF TROPICAL STORM FORMATION IN THE NEXT 5 DAYS.

TROPICAL DEPRESSION DANNY IS LOCATED NEAR THE LEEWARD ISLANDS

USOR-MCC Bi-Weekly Site Monitoring Checklist Date: 08/24/2015

USOR Property

Site and Perimeter Conditions (circle one)

☒	Any Locks Missing?	Yes	(No)
☒	Any Gates Damaged, Not Functional or Not Closed?	Yes	(No)
☒	Any Fence Damage Since Previous Site Visit?	Yes	(No)
☒	Any Evidence of Vandalism/Trespassing?	Yes	(No)
☒	Have Other Physical Conditions Changed?	Yes	(No)

(Explain all "Yes" answers below)

General Observations

☒	Any Evidence of Staining?	Yes	(No)
☒	Any Change to Existing Stained Areas?	Yes	(No)
☒	Any Evidence of Off-Site Staining?	Yes	(No)
☒	Any Odor Observed Emanating from the Site?	Yes	(No)

(Explain all "Yes" answers below)

ASTs

☒	Any Evidence of Vandalism/Trespassing?	Yes	(No)
☒	Any Weeping or Dripping Tanks or Valves?	Yes	(No)
☒	Have Other Physical Conditions Changed?	Yes	(No)

(Explain all "Yes" answers below)

Drum/Tote Storage Area

Not Applicable – Drums/Totes Removed as of January 2015

Roll-Off Boxes

Not Applicable – Roll-Off Boxes Emptied as of April 2015

Freeboard Measurements

North Tank Farm Secondary Containment	ft 10 inches
South Tank Farm Secondary Containment	ft 9 inches
Sump 34 (estimated)	ft 36 inches
Sump 35	ft 36 inches
Sump 36	ft 43 inches
Bay 45	ft 13 inches
Bay 48	ft 17 inches

USOR-MCC Bi-Weekly Site Monitoring Checklist Date: 08/24/2015

Any freeboard levels < 6 inches from the top of the containment? Yes (No)

If Yes, has the Project Coordinator been notified? Yes No (N/A)

Potential for Off-Site Migration

Containment Pond Freeboard less than 2 feet (estimated) Yes (No)

Bioreactor (not applicable – Bioreactor removed as of April 2014)

If Yes, has the Project Coordinator been notified? Yes No (N/A)

Issues for Potential Corrective Action

NONE

USOR-MCC Bi-Weekly Site Monitoring Checklist Date: 08/24/2015

MCC West Property

Site and Perimeter Conditions (circle one)

- ☒ Any Locks Missing? Yes (No)
- ☒ Any Gates Damaged, Not Functional or Not Closed ? Yes (No)
- ☒ Any Fence Damage Since Previous Site Visit? Yes (No)
- ☒ Any Containment Structures Leaking? Yes (No)
- ☒ Have Other Physical Conditions Changed? Yes (No)

(Explain all "Yes" answers below)

General Observations

- ☒ Any Evidence of Staining? Yes (No)
- ☒ Any Change to Existing Stained Areas? Yes (No)
- ☒ Any Evidence of Off-Site Staining? Yes (No)
- ☒ Any Odor Observed Emanating from the Site? Yes (No)

(Explain all "Yes" answers below)

Lift Stations #2 and #3

- ☒ Any Evidence of Vandalism/Trespassing? Yes (No)
- ☒ Any Caps/Lids Damaged, Missing or Not Closed? Yes (No)
- ☒ Have Other Physical Conditions Changed? Yes (No)

(Explain all "Yes" answers below)

Potential for Off-Site Migration

Aeration Basin (Final Clarifier) Yes (No)

Primary Clarifier Yes (No)

High Rate Trickling Filter Yes (No)

If Yes, has the Project Coordinator been notified? **Yes** **No** (N/A)

Issues for Potential Corrective Action

NONE

USOR-MCC Bi-Weekly Site Monitoring Checklist Date: 08/24/2015

MCC East Property

Site and Perimeter Conditions (circle one)

- ☒ Any Locks Missing? Yes (No)
- ☒ Any Gates Damaged, Not Functional or Not Closed? Yes (No)
- ☒ Any Fence Damage Since Previous Site Visit? Yes (No)
- ☒ Any Containment Structures Leaking? Yes (No)
- ☒ Have Other Physical Conditions Changed? Yes (No)

(Explain all "Yes" answers below)

General Observations

- ☒ Any Evidence of Staining? Yes (No)
- ☒ Any Change to Existing Stained Areas? Yes (No)
- ☒ Any Evidence of Off-Site Staining? Yes (No)
- ☒ Any Odor Observed Emanating from the Site? Yes (No)

(Explain all "Yes" answers below)

Pump Control Room & Lift Station #1

- ☒ Any Evidence of Vandalism/Trespassing? Yes (No)
- ☒ Any Caps/Lids Damaged, Missing or Not Closed? Yes (No)
- ☒ Have Other Physical Conditions Changed? Yes (No)

(Explain all "Yes" answers below)

Freeboard Measurements

Chlorine Contact Tank _____ft 28 inches

Any freeboard levels < 6 inches from the top of the containment? **Yes** (No)

If Yes, has the Project Coordinator been notified? **Yes** **No** (N/A)

Potential for Off-Site Migration

Lift Station #1 Yes (No)

Primary Clarifier #1 Yes (No)

Primary Clarifier #2 Yes (No)

Oxygen Digester #1 Yes (No)

Oxygen Digester #2 Yes (No)

Oxygen Activated Sludge Tank Yes (No)

Former Sand Filter Yes (No)

Aerobic Digester Yes (No)

Gravity Thickener Yes (No)

If Yes, has the Project Coordinator been notified? **Yes** **No** (N/A)

Issues for Potential Corrective Action

NONE

USOR-MCC Bi-Weekly Site Monitoring Checklist

Date: 08/24/2015

Summary of Photographs Taken

Photo File Name = PXXX-08242015 **(P#-MMDDYYYY)**

NONE

USOR-MCC Bi-Weekly Site Monitoring Checklist

Date: 08/24/2015

Site Monitoring Explanations

USOR

- NONE

MCC EAST

- NONE

MCC WEST

- NONE

USOR-MCC Bi-Weekly Site Monitoring Checklist Date: 08/27/2015

General Information

Day & Date: THURSDAY, 08/27/2015

Arrival Time: 07:00

Departure Time: 08:25

Type of Visit: ✓ Routine _____ Unscheduled

Site Inspection Personnel:

J. PENNINGTON (RAMBOLL ENVIRON)

L. NGUYEN (RAMBOLL ENVIRON)

Weather Conditions During Site Visit:

PARTLY CLOUDY

Comments (if any):

INTERGULF REMOVED APPROXIMATELY 5,145 GALLONS FROM NTF AND 5,000 GALLONS FROM STF FOR OFF-SITE DISPOSAL AT INTERGULF'S PASADENA, TEXAS FACILITY.

Date: 08/27/2015

Weather Forecast and Notable Weather Elements:

General Forecast

SUNNY

7-Day Forecast at a Glance

Day	Day of Site Visit	Expected Low/High Temp	Expected Rain Chances	Expected Rain Amount (if known)	Expected Wind Speed and Direction
SUNDAY	☐	74/92	20%	0.00 IN	NA
MONDAY	☐	75/92	30%	NA	NA
TUESDAY	☐	75/90	40%	NA	NA
WEDNESDAY	☐	76/91	40%	NA	NA
THURSDAY	☒	70/94	0%	0.00 IN	5MPH, NW
FRIDAY	☐	70/93	0%	0.00 IN	6MPH, W
SATURDAY	☐	74/92	0%	0.00 IN	5-10MPH, S

Source: Tabular State Forecast for Southeast Texas of the National Weather Service for Houston/Galveston Texas (http://www.srh.noaa.gov/hgx/?n=forecasts)

Long Term Outlook

TROPICAL STORM ERIKA IS LOCATED NEAR THE NORTHERN LEEWARD ISLANDS

USOR-MCC Bi-Weekly Site Monitoring Checklist Date: 08/27/2015

USOR Property

Site and Perimeter Conditions

(circle one)

- [X] Any Locks Missing? Yes (No)
- [X] Any Gates Damaged, Not Functional or Not Closed? Yes (No)
- [X] Any Fence Damage Since Previous Site Visit? Yes (No)
- [X] Any Evidence of Vandalism/Trespassing? Yes (No)
- [X] Have Other Physical Conditions Changed? Yes (No)

(Explain all "Yes" answers below)

General Observations

- [X] Any Evidence of Staining? Yes (No)
- [X] Any Change to Existing Stained Areas? Yes (No)
- [X] Any Evidence of Off-Site Staining? Yes (No)
- [X] Any Odor Observed Emanating from the Site? Yes (No)

(Explain all "Yes" answers below)

ASTs

- [X] Any Evidence of Vandalism/Trespassing? Yes (No)
- [X] Any Weeping or Dripping Tanks or Valves? Yes (No)
- [X] Have Other Physical Conditions Changed? Yes (No)

(Explain all "Yes" answers below)

Drum/Tote Storage Area

Not Applicable – Drums/Totes Removed as of January 2015

Roll-Off Boxes

Not Applicable – Roll-Off Boxes Emptied as of April 2015

Freeboard Measurements

North Tank Farm Secondary Containment	ft 10 inches
South Tank Farm Secondary Containment	ft 10 inches
Sump 34 (estimated)	ft 35 inches
Sump 35	ft 35 inches
Sump 36	ft 35 inches
Bay 45	ft 13 inches
Bay 48	ft 11 inches

USOR-MCC Bi-Weekly Site Monitoring Checklist Date: 08/27/2015

Any freeboard levels < 6 inches from the top of the containment? Yes (No)

If Yes, has the Project Coordinator been notified? Yes No (N/A)

Potential for Off-Site Migration

Containment Pond Freeboard less than 2 feet (estimated) Yes (No)

Bioreactor (not applicable – Bioreactor removed as of April 2014)

If Yes, has the Project Coordinator been notified? Yes No (N/A)

Issues for Potential Corrective Action

NONE

USOR-MCC Bi-Weekly Site Monitoring Checklist

Date: 08/27/2015

MCC West Property

Site and Perimeter Conditions

(circle one)

- [X] Any Locks Missing? Yes (No)
- [X] Any Gates Damaged, Not Functional or Not Closed ? Yes (No)
- [X] Any Fence Damage Since Previous Site Visit? Yes (No)
- [X] Any Containment Structures Leaking? Yes (No)
- [X] Have Other Physical Conditions Changed? Yes (No)

(Explain all "Yes" answers below)

General Observations

- [X] Any Evidence of Staining? Yes (No)
- [X] Any Change to Existing Stained Areas? Yes (No)
- [X] Any Evidence of Off-Site Staining? Yes (No)
- [X] Any Odor Observed Emanating from the Site? Yes (No)

(Explain all "Yes" answers below)

Lift Stations #2 and #3

- [X] Any Evidence of Vandalism/Trespassing? Yes (No)
- [X] Any Caps/Lids Damaged, Missing or Not Closed? Yes (No)
- [X] Have Other Physical Conditions Changed? Yes (No)

(Explain all "Yes" answers below)

Potential for Off-Site Migration

Aeration Basin (Final Clarifier) Yes (No)

Primary Clarifier Yes (No)

High Rate Trickling Filter Yes (No)

If Yes, has the Project Coordinator been notified? **Yes** **No** (N/A)

Issues for Potential Corrective Action

NONE

USOR-MCC Bi-Weekly Site Monitoring Checklist Date: 08/27/2015

MCC East Property

Site and Perimeter Conditions (circle one)

☒ Any Locks Missing?	Yes	(No)
☒ Any Gates Damaged, Not Functional or Not Closed?	Yes	(No)
☒ Any Fence Damage Since Previous Site Visit?	Yes	(No)
☒ Any Containment Structures Leaking?	Yes	(No)
☒ Have Other Physical Conditions Changed?	Yes	(No)

(Explain all "Yes" answers below)

General Observations

☒ Any Evidence of Staining?	Yes	(No)
☒ Any Change to Existing Stained Areas?	Yes	(No)
☒ Any Evidence of Off-Site Staining?	Yes	(No)
☒ Any Odor Observed Emanating from the Site?	Yes	(No)

(Explain all "Yes" answers below)

Pump Control Room & Lift Station #1

☒ Any Evidence of Vandalism/Trespassing?	Yes	(No)
☒ Any Caps/Lids Damaged, Missing or Not Closed?	Yes	(No)
☒ Have Other Physical Conditions Changed?	Yes	(No)

(Explain all "Yes" answers below)

Freeboard Measurements

Chlorine Contact Tank _____ft 26 inches

Any freeboard levels < 6 inches from the top of the containment? **Yes** (No)

If Yes, has the Project Coordinator been notified? **Yes** **No** (N/A)

Potential for Off-Site Migration

Lift Station #1	Yes	(No)
Primary Clarifier #1	Yes	(No)
Primary Clarifier #2	Yes	(No)
Oxygen Digester #1	Yes	(No)
Oxygen Digester #2	Yes	(No)
Oxygen Activated Sludge Tank	Yes	(No)
Former Sand Filter	Yes	(No)
Aerobic Digester	Yes	(No)
Gravity Thickener	Yes	(No)

If Yes, has the Project Coordinator been notified? Yes No (N/A)

Issues for Potential Corrective Action

NONE

USOR-MCC Bi-Weekly Site Monitoring Checklist Date: 08/27/2015

Summary of Photographs Taken

Photo File Name = PXXX-08272015 **(P#-MMDDYYYY)**

NONE

USOR-MCC Bi-Weekly Site Monitoring Checklist

Date: 08/27/2015

Site Monitoring Explanations

USOR

- NONE

MCC EAST

- NONE

MCC WEST

- NONE

USOR-MCC Bi-Weekly Site Monitoring Checklist Date: 08/31/2015

General Information

Day & Date: MONDAY, 08/31/2015

Arrival Time: 07:00

Departure Time: 08:35

Type of Visit: ✓ Routine _____ Unscheduled

Site Inspection Personnel:

A. BROWER (RAMBOLL ENVIRON)

L. NGUYEN (RAMBOLL ENVIRON)

Weather Conditions During Site Visit:

PARTLY CLOUDY, WIND BLOWING FROM THE SOUTH

Comments (if any):

INTERGULF REMOVED APPROXIMATELY 5,000 GALLONS FROM NTF AND 5,092 GALLONS FROM MCC EAST UFT STATION #1 FOR OFF-SITE DISPOSAL AT INTERGULF'S PASADENA, TEXAS FACILITY.

Weather Forecast and Notable Weather Elements:

General Forecast

PARTLY CLOUDY. A 20% CHANCE OF SHOWERS AND THUNDERSTORMS IN THE MORNING, AND A 30% CHANCE IN THE AFTERNOON

7-Day Forecast at a Glance

Day	Day of Site Visit	Expected Low/High Temp	Expected Rain Chances	Expected Rain Amount (if known)	Expected Wind Speed and Direction
SUNDAY	☐	76/91	20%	NA	NA
MONDAY	☒	76/90	30%	0.00 IN	5-10MPH, SE
TUESDAY	☐	76/87	50%	0.27 IN	5-10MPH, SE
WEDNESDAY	☐	75/89	40%	0.13 IN	5-10MPH, SE
THURSDAY	☐	75/90	40%	0.05 IN	NA
FRIDAY	☐	76/90	30%	NA	NA
SATURDAY	☐	76/91	30%	NA	NA

Source: Tabular State Forecast for Southeast Texas of the National Weather Service for Houston/Galveston Texas (http://www.srh.noaa.gov/hgx/?n=forecasts)

Long Term Outlook

HURRICANE FRED LOCATED NEAR THE EASTERNMOST CAPE VERDE ISLANDS MOVING 12MPH NORTHWEST.

USOR-MCC Bi-Weekly Site Monitoring Checklist **Date:** 08/31/2015

USOR Property

Site and Perimeter Conditions

(circle one)

☒ Any Locks Missing?	Yes	(No)
☒ Any Gates Damaged, Not Functional or Not Closed?	Yes	(No)
☒ Any Fence Damage Since Previous Site Visit?	Yes	(No)
☒ Any Evidence of Vandalism/Trespassing?	Yes	(No)
☒ Have Other Physical Conditions Changed?	Yes	(No)

(Explain all "Yes" answers below)

General Observations

☒ Any Evidence of Staining?	Yes	(No)
☒ Any Change to Existing Stained Areas?	Yes	(No)
☒ Any Evidence of Off-Site Staining?	Yes	(No)
☒ Any Odor Observed Emanating from the Site?	Yes	(No)

(Explain all "Yes" answers below)

ASTs

☒ Any Evidence of Vandalism/Trespassing?	Yes	(No)
☒ Any Weeping or Dripping Tanks or Valves?	Yes	(No)
☒ Have Other Physical Conditions Changed?	Yes	(No)

(Explain all "Yes" answers below)

Drum/Tote Storage Area

Not Applicable – Drums/Totes Removed as of January 2015

Roll-Off Boxes

Not Applicable – Roll-Off Boxes Emptied as of April 2015

Freeboard Measurements

North Tank Farm Secondary Containment	ft 13 inches
South Tank Farm Secondary Containment	ft 9 inches
Sump 34 (estimated)	ft 33 inches
Sump 35	ft 33 inches
Sump 36	ft 34 inches
Bay 45	ft 13 inches
Bay 48	ft 11 inches

USOR-MCC Bi-Weekly Site Monitoring Checklist Date: 08/31/2015

Any freeboard levels < 6 inches from the top of the containment? **Yes** (No)

If Yes, has the Project Coordinator been notified? **Yes** **No** (N/A)

Potential for Off-Site Migration

Containment Pond Freeboard less than 2 feet (estimated) Yes (No)

Bioreactor (not applicable – Bioreactor removed as of April 2014)

If Yes, has the Project Coordinator been notified? **Yes** **No** (N/A)

Issues for Potential Corrective Action

NONE

USOR-MCC Bi-Weekly Site Monitoring Checklist Date: 08/31/2015

MCC West Property

Site and Perimeter Conditions (circle one)

☒	Any Locks Missing?	Yes	(No)
☒	Any Gates Damaged, Not Functional or Not Closed ?	Yes	(No)
☒	Any Fence Damage Since Previous Site Visit?	Yes	(No)
☒	Any Containment Structures Leaking?	Yes	(No)
☒	Have Other Physical Conditions Changed? SEE EXPLANATIONS PAGE →	(Yes)	No

(Explain all "Yes" answers below)

General Observations

☒	Any Evidence of Staining?	Yes	(No)
☒	Any Change to Existing Stained Areas?	Yes	(No)
☒	Any Evidence of Off-Site Staining?	Yes	(No)
☒	Any Odor Observed Emanating from the Site?	Yes	(No)

(Explain all "Yes" answers below)

Lift Stations #2 and #3

☒	Any Evidence of Vandalism/Trespassing?	Yes	(No)
☒	Any Caps/Lids Damaged, Missing or Not Closed?	Yes	(No)
☒	Have Other Physical Conditions Changed?	Yes	(No)

(Explain all "Yes" answers below)

Potential for Off-Site Migration

Aeration Basin (Final Clarifier)	Yes	(No)
Primary Clarifier	Yes	(No)
High Rate Trickling Filter	Yes	(No)

If Yes, has the Project Coordinator been notified? **Yes** **No** **(N/A)**

Issues for Potential Corrective Action

NONE

USOR-MCC Bi-Weekly Site Monitoring Checklist Date: 08/31/2015

MCC East Property

Site and Perimeter Conditions (circle one)

- ☒ Any Locks Missing? Yes (No)
- ☒ Any Gates Damaged, Not Functional or Not Closed? Yes (No)
- ☒ Any Fence Damage Since Previous Site Visit? Yes (No)
- ☒ Any Containment Structures Leaking? Yes (No)
- ☒ Have Other Physical Conditions Changed? Yes (No)

(Explain all "Yes" answers below)

General Observations

- ☒ Any Evidence of Staining? Yes (No)
- ☒ Any Change to Existing Stained Areas? Yes (No)
- ☒ Any Evidence of Off-Site Staining? Yes (No)
- ☒ Any Odor Observed Emanating from the Site? Yes (No)

(Explain all "Yes" answers below)

Pump Control Room & Lift Station #1

- ☒ Any Evidence of Vandalism/Trespassing? Yes (No)
- ☒ Any Caps/Lids Damaged, Missing or Not Closed? Yes (No)
- ☒ Have Other Physical Conditions Changed? Yes (No)

(Explain all "Yes" answers below)

Freeboard Measurements

Chlorine Contact Tank ____ ft 26 inches

Any freeboard levels < 6 inches from the top of the containment? Yes (No)

If Yes, has the Project Coordinator been notified? Yes No (N/A)

Potential for Off-Site Migration

Lift Station #1 Yes (No)

Primary Clarifier #1 Yes (No)

Primary Clarifier #2 Yes (No)

Oxygen Digester #1 Yes (No)

Oxygen Digester #2 Yes (No)

Oxygen Activated Sludge Tank Yes (No)

Former Sand Filter Yes (No)

Aerobic Digester Yes (No)

Gravity Thickener Yes (No)

If Yes, has the Project Coordinator been notified? **Yes** **No** (N/A)

Issues for Potential Corrective Action

NONE

USOR-MCC Bi-Weekly Site Monitoring Checklist Date: 08/31/2015

Summary of Photographs Taken

Photo File Name = PXX-08312015 **(P#-MMDDYYYY)**

NONE

USOR-MCC Bi-Weekly Site Monitoring Checklist

Date: 08/31/2015

Site Monitoring Explanations

USOR

- NONE

MCC EAST

- NONE

MCC WEST

- HEADWORKS PIPE - NOT DRIPPING
- TRICKLE FILTER VAULT - NOT OVERFLOWING

Attachment 2

August 2015 Intergulf Shipping Manifests

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: N/A
2. Page 1 of: 1
3. Emergency Response Phone: [illegible]
4. Manifest Tracking Number: 014507186 JJK

GENERATOR

5. Generator's Name and Mailing Address
US Oil Recovery
10333 Richmond Ave. ste 910
Houston, TX 77042
Generator's Phone:

Generator's Site Address (if different than mailing address)
US Oil Recovery
400 N Richey
Pasadena, TX 77506 (405) 286-9195

6. Transporter 1 Company Name: INTERGULF CORPORATION
U.S. EPA ID Number: TXR 0000 31286

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Interguif Bayport
10000 Bayport BLVD
Pasadena, Texas 77507
Facility's Phone: (281) 474-4210
U.S. EPA ID Number: TXR000031286

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. Non Hazardous Wastewater-Class II	1	T	5,000	G	[illegible]	2162	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
IGC Profile Number: 06017
ERG #:
TRK - 816
TRL - 142
1874454

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: [illegible] Signature: [illegible] Month: Day: Year:

INTL

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: WILLARD B. NELMS JR. Signature: Willard B. Nelms Month: 3 Day: 15 Year:

Transporter 2 Printed/Typed Name: Signature: Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in item 18a

Printed/Typed Name: Signature: Month: Day: Year:

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. GENERATOR'S INITIAL COPY

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: N/A

2. Page 1 of

3. Emergency Response Phone: Robert Coffman (405) 286-9198

4. Manifest Tracking Number: 014506775 **JJK**

5. Generator's Name and Mailing Address

US Oil Recovery
10333 Richmond Ave Ste 910
Houston, TX 77042

Generator's Phone:

Generator's Site Address (if different than mailing address)

US Oil Recovery
400 N. Richey
Pasadena, TX 77506 (405) 286-9198

6. Transporter 1 Company Name: Intergulf Corporation — U.S. EPA ID Number: TXR000031286

7. Transporter 2 Company Name: — U.S. EPA ID Number:

8. Designated Facility Name and Site Address

Intergulf Bayport
10020 Bayport BLVD
Pasadena, Texas 77507

Facility's Phone: (281) 474-4210

U.S. EPA ID Number: TXR000031286

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1. Non Hazardous Waste Water	1	TT			FS2L 2191
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information

IGC Profile Number : 05143

ERG # :

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name | Signature | Month | Day | Year

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name | Signature | Month | Day | Year
Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) | Month | Day | Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name | Signature | Month | Day | Year

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

GENERATOR'S INITIAL COPY

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: N/A
2. Page 1 of: 1
3. Emergency Response Phone: Robert E. Corman (405) 286-9198
4. Manifest Tracking Number: 014507163 JJK

5. Generator's Name and Mailing Address:
US Oil Recovery
10333 Richmond Ave. ste 910
Houston, TX 77042

Generator's Site Address (if different than mailing address):
US Oil Recovery
400 N Richey
Pasadena, TX 77506 (405) 286-9198

Generator's Phone:

6. Transporter 1 Company Name — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address:
Intergulf Bayport
10020 Bayport BLVD
Pasadena, Texas 77507

Facility's Phone: (281) 474-4210

U.S. EPA ID Number: TXR000031286

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1. Non Hazardous Wastewater-Class II	1	T	5058	G	NCC1 2192
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information

IGC Profile Number: 08017

ERG #:

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: — Signature: — Month/Day/Year: 8 / 24 / 15

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: MASON — Signature: — Month/Day/Year: 8 / 24 / 15
Transporter 2 Printed/Typed Name: — Signature: — Month/Day/Year:

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name — Signature — Month Day Year

GENERATOR / INT'L / TRANSPORTER / DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

GENERATOR'S INITIAL COPY

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
N/A		Robert Coltman (405) 286-9198	014510815 JJK

5. Generator's Name and Mailing Address: US Oil Recovery, 10333 Richmond Ave Ste 910, Houston, TX 77042

Generator's Site Address (if different than mailing address): US Oil Recovery, 400 N. Richey, Pasadena, TX 77506 (405) 286-9198

Generator's Phone:

6. Transporter 1 Company Name: Intergulf Corporation — U.S. EPA ID Number: TXR000031286

7. Transporter 2 Company Name: — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Intergulf Bayport, 10020 Bayport BLVD, Pasadena, Texas 77507 — U.S. EPA ID Number: TXR000031286

Facility's Phone: (281) 474-4210

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1. Non Hazardous Waste Water	1	TT			G FS2L 2191
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information

IGC Profile Number: 05143

ERG #:

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name — Signature — Month Day Year

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name — Signature — Month Day Year
Transporter 2 Printed/Typed Name — Signature — Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name — Signature — Month Day Year

GENERATOR / INT'L / TRANSPORTER / DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

GENERATOR'S INITIAL COPY

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	N/A		(405) 286-9198	01451081 7 JJK

GENERATOR

5. Generator's Name and Mailing Address

US Oil Recovery
10333 Richmond Ave Ste 910
Houston, TX 77042

Generator's Phone:

Generator's Site Address (if different than mailing address)

US Oil Recovery
400 N. Richey
Pasadena, TX 77506 (405) 286-9198

6. Transporter 1 Company Name — U.S. EPA ID Number

Intergulf Corporation — TXR000031286

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address — U.S. EPA ID Number

Intergulf Bayport
10020 Bayport BLVD
Pasadena, Texas 77607
(281) 474-4210

Facility's Phone: — TXR000031286

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1. Non Hazardous Waste Water	1	TT			S FS2L 2181
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information

IGC Profile Number : 05143

ERG # :

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
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Generator's/Offeror's Printed/Typed Name: — Signature — Month Day Year

INTL

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name — Signature — Month Day Year

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name — Signature — Month Day Year

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Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: N/A
2. Page 1 of: 1
3. Emergency Response Phone: Robert E. Coleman (405) 285-8198
4. Manifest Tracking Number: 014507205 JJK

5. Generator's Name and Mailing Address:
US Oil Recovery
10333 Richmond Ave. ste 910
Houston, TX 77042

Generator's Site Address (if different than mailing address):
US Oil Recovery
400 N Richey
Pasadena, TX 77506 (405) 285-8198

Generator's Phone:

6. Transporter 1 Company Name: [illegible handwriting] — U.S. EPA ID Number: [illegible handwriting]

7. Transporter 2 Company Name: — U.S. EPA ID Number:

8. Designated Facility Name and Site Address:
Intergulf Bayport
10020 Bayport BLVD
Pasadena, Texas 77507
Facility's Phone: (281) 474-4210
U.S. EPA ID Number: TXR000081286

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. Non Hazardous Wastewater-Class II	1	TT	5072	G	MCC1	2192	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
IGC Profile Number: 08017
ERG #:

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: [illegible handwriting] — Signature: [signature] — Month 8 Day 31 Year 15

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: [illegible handwriting] — Signature: [signature] — Month 8 Day 31 Year 15
Transporter 2 Printed/Typed Name: — Signature: — Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator) — U.S. EPA ID Number:
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name — Signature — Month Day Year

GENERATOR · INT'L · TRANSPORTER · DESIGNATED FACILITY

GENERATOR'S INITIAL COPY

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: N/A
2. Page 1 of
3. Emergency Response Phone: 1 Robert Cothran
4. Manifest Tracking Number: 014510865 JJK

GENERATOR

5a. Generator's Name and Mailing Address:
US Oil Recovery
10333 Richmond Ave Ste 910
Houston, TX 77042
Generator's Phone:

Generator's Site Address (if different than mailing address):
US Oil Recovery
400 N. Richey
Pasadena, TX 77506 (405) 286-9188

6. Transporter 1 Company Name: Interguif Corporation
U.S. EPA ID Number: TXR000031288

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address:
Interguif Bayport
10020 Bayport BLVD
Pasadena, Texas 77507
(281) 474-4040
U.S. EPA ID Number: TXR000031288
Facility's Phone:

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. Non Hazardous Waste Water		1	TT		G	FS21	2191
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
IGC Profile Number : 05143
ERG # : 128

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name | Signature | Month 8 | Day 31 | Year 15

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name | Signature | Month 8 | Day 31 | Year 15
Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) Month | Day | Year
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. | 2. | 3. | 4.
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name | Signature | Month | Day | Year

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. GENERATOR'S INITIAL COPY

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Attachment 3

Analytical and Validation Reports – EQ-07 Liquid Sample

Level II Data Validation Report

To:	Eric Pastor, P.E.	**Date:**	August 11, 2015
From:	Brenda Basile, Ph.D.	**File:**	USOR Equipment July 215 DUS.doc
RE:	Review of Equipment Waste Characterization Samples Collected July 2015	**CC:**	

PBW reviewed one laboratory report from ALS Environmental providing the analytical results for waste samples collected by Effective Environmental on July 8, 2015 at the U. S. Oil Recovery (USOR) Superfund site. The reports were reviewed for conformance to the requirements of *SW-846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods* (SW-846), *USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review* (June 2008), *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review* (January 2010), and the USOR Quality Assurance Project Plan (QAPP) for Site Monitoring and Stabilization (May 2012). The purpose of this sample event was to provide waste characterization data for the disposal of the equipment contents.

Waste samples were analyzed using the following methods:

- SM 4500H+ B – pH Value Electrometric Method
- SW-846 7.3.3.2 Reactive Cyanide
- SW-846 7.3.4.2 Reactive Sulfide
- SW-846 1010 - Test Methods for Flash Point by Pensky-Martens Closed-Cup Tester
- SW 846 6020A – Inductively Coupled Plasma – Mass Spectrometry
- SW 846 7470A – Mercury in Liquid Waste (Manual Cold Vapor Technique)
- SW-846 8260C - Volatile Organic Compounds by Gas Chromatography-Mass Spectrometry (GC/MS)
- SW-846 8270 – Semivolatile Organic Compounds by Gas Chromatography-Mass Spectrometry (GC/MS)
- TNRCC 1005 – Total Petroleum Hydrocarbons

Quality control (QC) data were reviewed as described in the QAPP and the results of the review are discussed in this memorandum. ALS Environmental (Houston, Texas) is accredited under Texas certificate T104704231-14-14 for the matrices, methods, and analytes reported in this laboratory report. ALS Environmental (Holland, Michigan) is accredited under Texas certificate T104704494-15-6 for cyanide and sulfide.

Introduction

The July 2015 sample was analyzed for total metals, semivolatile organic compounds (SVOCs), volatile organic compounds (VOCs), and total petroleum hydrocarbons (TPH). In addition, the sample was analyzed for reactivity (cyanide and sulfide), corrosivity, and ignitability (RCI) using the methods listed above. Table 1 lists the sample identifications cross-referenced to laboratory identifications and the analyses performed for each sample. Data qualified due to exceedances of QC criteria are listed in Table 2.

QC Results

PRESERVATION AND HOLDING TIMES

Samples were received at the laboratory at temperatures less than 6°C.

Samples for pH determination are to be "analyzed immediately". Samples were analyzed in the laboratory; all pH data is qualified as estimated (J) due to holding time exceedances. The remaining analyses were performed within method and QAPP holding times.

BLANKS

No analytes were detected in field or laboratory quality control blanks.

SURROGATE RECOVERIES AND INTERNAL STANDARD AREAS

The laboratory flags data using statistically derived control limits as a reference. Except for the TPH analysis, surrogate recoveries were within the QAPP acceptance criteria. TPH surrogate recoveries were 0% for the USOR-Storage Hopper Liquid sample. Since the sample was diluted by a factor of 100, data were not qualified.

LABORATORY CONTROL SAMPLES

The laboratory flags data using statistically derived control limits as a reference. Laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) (if analyzed) recoveries (%R) outside the QAPP acceptance criteria are listed in Table 3. LCS/LCSD precision (as relative percent difference [RPD]) was within QAPP criteria. Field sample data are qualified as shown in Tables 2 and 3.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Batch or non-project sample data were not evaluated. The laboratory flags data using statistically derived control limits as a reference. Matrix spike/matrix spike duplicate (MS/MSD) recoveries (%R) outside the QAPP criteria are listed in Table 3. Sample data are not qualified if recoveries exceed the QAPP limits and the analyte is not detected. Field sample data are qualified as shown in Tables 2 and 3.

The MS/MSD recoveries for hexachlorocyclopentadiene in the USOR-Storage Hopper Liquid sample were 0 and 5.2%, respectively. Since the MS/MSD recoveries are less than 10% and the analyte was not detected in the sample, the hexachlorocyclopentadiene data for USOR-Storage Hopper Liquid are rejected (R).

FIELD PRECISION

Field duplicate samples were not collected; field duplicate precision was not evaluated.

SUMMARY

Except for hexachlorocyclopentadiene in the USOR-Storage Hopper Liquid sample, analytical data are usable for determining concentrations in waste samples collected from equipment at the USOR Site. The data for hexachlorocyclopentadiene in the USOR-Storage Hopper Liquid sample are rejected due to MS/MSD recoveries below 10%.

Table 1 Cross-Reference Field Sample Identifications and Laboratory Identifications

Field Identification	Laboratory Identification	VOCs	SVOCs	Metals	RCI	Comment
USOR-Storage Hopper Liquid	HS15070410-01	X	X	X	X	TPH; SVOC and Reactive Cyanide MS/MSD

VOCs –Volatile Organic Compounds
SVOCs – Semivolatile Organic Compounds
RCI – Reactivity, Corrosivity, Ignitability
TPH – Total Petroleum Hydrocarbons
MS/MSD – matrix spike/matrix spike duplicate

Table 2 Qualified Data

Field Identification	Analyte	Qualification	Reason for Qualification
All	pH	J	Holding time exceeded
USOR-Storage Hopper Liquid	2,4-Dinitrophenol	JL	MS/MSD recovery below acceptance criteria
USOR-Storage Hopper Liquid	4-Chloroaniline	JL	LCS recovery below acceptance criteria
USOR-Storage Hopper Liquid	Dibenz(a,h)anthracene	JL	MS/MSD recovery below acceptance criteria
USOR-Storage Hopper Liquid	Hexachlorocyclopentadiene	R	MS/MSD recovery less than 10%
USOR-Storage Hopper Liquid	Indeno(123-cd)pyrene	JL	LCS recovery below acceptance criteria
USOR-Storage Hopper Liquid	Pentachlorophenol	JL	MS/MSD recovery below acceptance criteria

JL – Data are estimated due to exceedances of one or more quality control criteria; bias likely low
R – Data are rejected due to failure to meet one or more quality control criteria

Table 3 Precision and Recovery Exceedances

Sample	Analyte	Spike Recovery	Spike Duplicate Recovery[a]	Precision	Qualification
LCS-95244	4-Chloroaniline	46.4	42.7	8.23	JL
LCS-95244	Indeno(123-cd)pyrene	57.8	56.8	1.65	JL
LCS-95244	Benzo(b)fluoranthene	63.4	59.4	6.65	None; average > 60%
LCS-95244	Di-n-octyl phthalate	61.9	59.3	4.31	None; average > 60%
USOR-Storage Hopper Liquid	2,4-Dinitrophenol	25.3	32.4	24.6	JL
USOR-Storage Hopper Liquid	4-Nitroaniline	152	286	70.6	None; analyte not detected
USOR-Storage Hopper Liquid	Bis(2-Ethylhexyl)phthalate	-68.3	-115	4.34	None; sample concentration greater than 4x spike
USOR-Storage Hopper Liquid	Caprolactam	156	297	62	None; analyte not detected
USOR-Storage Hopper Liquid	Dibenz(a,h)anthracene	59.8	56.2	6.38	JL
USOR-Storage Hopper Liquid	Hexachloro-cyclopentadiene	0	5.20	200	R; < 10% recovery
USOR-Storage Hopper Liquid	N-nitrosodiphenylamine	192	240	22.1	None; analyte not detected
USOR-Storage Hopper Liquid	Pentachlorophenol	40.9	52.6	25	JL
USOR-Storage Hopper Liquid	Pyrene	137	141	2.8	None; analyte not detected

JL – Data are estimated due to exceedances of one or more quality control criteria; bias likely low
R – Data are rejected due to failure to meet one or more quality control criteria

10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887
www.alsglobal.com

July 20, 2015

Hiren Shah
Effective Environmental Inc.
9950 Chemical Road
Pasadena, TX 77507

Work Order: **HS15070410**

Laboratory Results for: **USOR - Storage Hopper Waste 8368**

Dear Hiren,

ALS Environmental received 2 sample(s) on Jul 09, 2015 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Generated By: Jumoke.Lawal
Dane J. Wacasey

Client: Effective Environmental Inc.
Project: USOR - Storage Hopper Waste 8368
Work Order: HS15070410

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS15070410-01	USOR-Storage Hopper Liquid	Liquid		08-Jul-2015 14:10	09-Jul-2015 13:27	☐
HS15070410-02	TRIP BLANK 062515-96	Water		08-Jul-2015 00:00	09-Jul-2015 13:27	☑

Client: Effective Environmental Inc. **CASE NARRATIVE**
Project: USOR - Storage Hopper Waste 8368
Work Order: HS15070410

Work Order Comments

- Sample received outside method holding time for pH. pH is an immediate test. Sample results are flagged with an "H" qualifier. The temperature at the time of pH is reported. Please note that all pH results are already normalized to a temperature of 25 °Celsius.
- The analyses for Reactive Cyanide and Reactive Sulfide were subcontracted to ALS Environmental in Holland, MI.

GC Semivolatiles by Method TX1005

Batch ID: 95249

Sample ID: **USOR-Storage Hopper Liquid (HS15070410-01)**
- Surrogate could not be calculated due to dilution beyond the calibration range.

GCMS Semivolatiles by Method SW8270

Batch ID: 95244

Sample ID: **USOR-Storage Hopper Liquid (HS15070410-01 MS/MSD)**
- One or more of the matrix spike (MS) and the matrix spike duplicate (MSD) compounds for the EPA 8270 analysis were recovered outside of the quality control limits due to sample matrix interference. The LCS sample associated to this sample was within control limits.

Sample ID: **USOR-Storage Hopper Liquid (HS15070410-01)**
- The RPD between the MS and MSD was outside of the control limit.

Sample ID: **USOR-Storage Hopper Liquid (HS15070410-01)**
- The sample was analyzed at 10x due to sample matrix. The sample is product.

GCMS Volatiles by Method SW8260

Batch ID: R258086

Sample ID: **USOR-Storage Hopper Liquid (HS15070410-01)**
- The sample could not be analyzed at a lesser dilution due to sample matrix. The sample is product.

Sample ID: **HS15070717-01**
- MS/MSD is for an unrelated sample.

Metals by Method SW7470

Batch ID: 95163

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Metals by Method SW6020

Batch ID: 95097

Sample ID: **HS15070203-05**
- MS and MSD are for an unrelated sample.

WetChemistry by Method SW1010

Batch ID: R257851

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method SM4500H+ B

Batch ID: R257687

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Client: Effective Environmental Inc. **ANALYTICAL REPORT**
Project: USOR - Storage Hopper Waste 8368 WorkOrder:HS15070410
Sample ID: USOR-Storage Hopper Liquid Lab ID:HS15070410-01
Collection Date: 08-Jul-2015 14:10 Matrix:Liquid

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C	**Method:SW8260**						Analyst: PC
1,1,1-Trichloroethane	U		0.25	2.5	mg/Kg	500	17-Jul-2015 12:49
1,1,2,2-Tetrachloroethane	U		0.40	2.5	mg/Kg	500	17-Jul-2015 12:49
1,1,2-Trichlor-1,2,2-trifluoroethane	U		0.35	2.5	mg/Kg	500	17-Jul-2015 12:49
1,1,2-Trichloroethane	U		0.25	2.5	mg/Kg	500	17-Jul-2015 12:49
1,1-Dichloroethane	U		0.25	2.5	mg/Kg	500	17-Jul-2015 12:49
1,1-Dichloroethene	U		0.25	2.5	mg/Kg	500	17-Jul-2015 12:49
1,2,4-Trichlorobenzene	U		0.55	2.5	mg/Kg	500	17-Jul-2015 12:49
1,2-Dibromo-3-chloropropane	U		0.80	2.5	mg/Kg	500	17-Jul-2015 12:49
1,2-Dibromoethane	U		0.25	2.5	mg/Kg	500	17-Jul-2015 12:49
1,2-Dichlorobenzene	U		0.50	2.5	mg/Kg	500	17-Jul-2015 12:49
1,2-Dichloroethane	U		0.30	2.5	mg/Kg	500	17-Jul-2015 12:49
1,2-Dichloropropane	U		0.40	2.5	mg/Kg	500	17-Jul-2015 12:49
1,3-Dichlorobenzene	U		0.55	2.5	mg/Kg	500	17-Jul-2015 12:49
1,4-Dichlorobenzene	U		0.50	2.5	mg/Kg	500	17-Jul-2015 12:49
2-Butanone	U		0.65	5.0	mg/Kg	500	17-Jul-2015 12:49
2-Hexanone	U		0.70	5.0	mg/Kg	500	17-Jul-2015 12:49
4-Methyl-2-pentanone	U		1.0	5.0	mg/Kg	500	17-Jul-2015 12:49
Acetone	U		1.6	10	mg/Kg	500	17-Jul-2015 12:49
Benzene	U		0.25	2.5	mg/Kg	500	17-Jul-2015 12:49
Bromodichloromethane	U		0.25	2.5	mg/Kg	500	17-Jul-2015 12:49
Bromoform	U		0.30	2.5	mg/Kg	500	17-Jul-2015 12:49
Bromomethane	U		0.50	5.0	mg/Kg	500	17-Jul-2015 12:49
Carbon disulfide	U		0.30	5.0	mg/Kg	500	17-Jul-2015 12:49
Carbon tetrachloride	U		0.30	2.5	mg/Kg	500	17-Jul-2015 12:49
Chlorobenzene	U		0.30	2.5	mg/Kg	500	17-Jul-2015 12:49
Chloroethane	U		0.40	5.0	mg/Kg	500	17-Jul-2015 12:49
Chloroform	U		0.25	2.5	mg/Kg	500	17-Jul-2015 12:49
Chloromethane	U		0.25	5.0	mg/Kg	500	17-Jul-2015 12:49
cis-1,2-Dichloroethene	U		0.40	2.5	mg/Kg	500	17-Jul-2015 12:49
cis-1,3-Dichloropropene	U		0.25	2.5	mg/Kg	500	17-Jul-2015 12:49
Cyclohexane	U	n	0.50	2.5	mg/Kg	500	17-Jul-2015 12:49
Dibromochloromethane	U		0.25	2.5	mg/Kg	500	17-Jul-2015 12:49
Dichlorodifluoromethane	U		0.35	2.5	mg/Kg	500	17-Jul-2015 12:49
Ethylbenzene	U		0.35	2.5	mg/Kg	500	17-Jul-2015 12:49
Isopropylbenzene	U		0.45	2.5	mg/Kg	500	17-Jul-2015 12:49
m,p-Xylene	U		0.80	5.0	mg/Kg	500	17-Jul-2015 12:49
Methyl acetate	U		0.35	2.5	mg/Kg	500	17-Jul-2015 12:49
Methyl tert-butyl ether	U		0.25	2.5	mg/Kg	500	17-Jul-2015 12:49
Methylcyclohexane	U		0.60	2.5	mg/Kg	500	17-Jul-2015 12:49

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Effective Environmental Inc.
Project: USOR - Storage Hopper Waste 8368
Sample ID: USOR-Storage Hopper Liquid
Collection Date: 08-Jul-2015 14:10

ANALYTICAL REPORT
WorkOrder:HS15070410
Lab ID:HS15070410-01
Matrix:Liquid

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C	**Method:SW8260**						Analyst: PC
Methylene chloride	**11**		**0.50**	**5.0**	**mg/Kg**	500	17-Jul-2015 12:49
o-Xylene	U		0.50	2.5	mg/Kg	500	17-Jul-2015 12:49
Styrene	U		0.35	2.5	mg/Kg	500	17-Jul-2015 12:49
Tetrachloroethene	**4.3**		**0.35**	**2.5**	**mg/Kg**	500	17-Jul-2015 12:49
Toluene	U		0.30	2.5	mg/Kg	500	17-Jul-2015 12:49
trans-1,2-Dichloroethene	U		0.25	2.5	mg/Kg	500	17-Jul-2015 12:49
trans-1,3-Dichloropropene	U		0.30	2.5	mg/Kg	500	17-Jul-2015 12:49
Trichloroethene	U		0.30	2.5	mg/Kg	500	17-Jul-2015 12:49
Trichlorofluoromethane	U		0.25	2.5	mg/Kg	500	17-Jul-2015 12:49
Vinyl chloride	U		0.40	1.0	mg/Kg	500	17-Jul-2015 12:49
Xylenes, Total	U		1.2	5.0	mg/Kg	500	17-Jul-2015 12:49
Surr: 1,2-Dichloroethane-d4	*89.1*			*70-128*	*%REC*	*500*	*17-Jul-2015 12:49*
Surr: 4-Bromofluorobenzene	*97.2*			*73-126*	*%REC*	*500*	*17-Jul-2015 12:49*
Surr: Dibromofluoromethane	*98.6*			*71-128*	*%REC*	*500*	*17-Jul-2015 12:49*
Surr: Toluene-d8	*89.8*			*73-127*	*%REC*	*500*	*17-Jul-2015 12:49*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Effective Environmental Inc. **ANALYTICAL REPORT**
Project: USOR - Storage Hopper Waste 8368 WorkOrder:HS15070410
Sample ID: USOR-Storage Hopper Liquid Lab ID:HS15070410-01
Collection Date: 08-Jul-2015 14:10 Matrix:Liquid

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
SEMIVOLATILES	**Method:SW8270**				Prep:SW3580A / 15-Jul-2015		Analyst: GEY
1,1´-Biphenyl	U		0.41	1.7	mg/Kg	10	15-Jul-2015 18:43
2,4,5-Trichlorophenol	U		0.21	1.7	mg/Kg	10	15-Jul-2015 18:43
2,4,6-Trichlorophenol	U		0.11	1.7	mg/Kg	10	15-Jul-2015 18:43
2,4-Dichlorophenol	U		0.12	1.7	mg/Kg	10	15-Jul-2015 18:43
2,4-Dimethylphenol	U		0.13	1.7	mg/Kg	10	15-Jul-2015 18:43
2,4-Dinitrophenol	U		0.11	1.7	mg/Kg	10	15-Jul-2015 18:43
2,4-Dinitrotoluene	U		0.13	1.7	mg/Kg	10	15-Jul-2015 18:43
2,6-Dinitrotoluene	U		0.10	1.7	mg/Kg	10	15-Jul-2015 18:43
2-Chloronaphthalene	U		0.12	1.7	mg/Kg	10	15-Jul-2015 18:43
2-Chlorophenol	U		0.10	1.7	mg/Kg	10	15-Jul-2015 18:43
2-Methylnaphthalene	U		0.27	1.7	mg/Kg	10	15-Jul-2015 18:43
2-Methylphenol	U		0.13	1.7	mg/Kg	10	15-Jul-2015 18:43
2-Nitroaniline	U		0.16	1.7	mg/Kg	10	15-Jul-2015 18:43
2-Nitrophenol	U		0.18	1.7	mg/Kg	10	15-Jul-2015 18:43
3&4-Methylphenol	U		0.13	1.7	mg/Kg	10	15-Jul-2015 18:43
3,3´-Dichlorobenzidine	U		0.19	1.7	mg/Kg	10	15-Jul-2015 18:43
3-Nitroaniline	U		0.15	1.7	mg/Kg	10	15-Jul-2015 18:43
4,6-Dinitro-2-methylphenol	U		0.16	1.7	mg/Kg	10	15-Jul-2015 18:43
4-Bromophenyl phenyl ether	U		0.15	1.7	mg/Kg	10	15-Jul-2015 18:43
4-Chloro-3-methylphenol	U		0.33	1.7	mg/Kg	10	15-Jul-2015 18:43
4-Chloroaniline	U		0.15	1.7	mg/Kg	10	15-Jul-2015 18:43
4-Chlorophenyl phenyl ether	U		0.16	1.7	mg/Kg	10	15-Jul-2015 18:43
4-Nitroaniline	U		0.13	1.7	mg/Kg	10	15-Jul-2015 18:43
4-Nitrophenol	U		0.16	1.7	mg/Kg	10	15-Jul-2015 18:43
Acenaphthene	U		0.15	1.7	mg/Kg	10	15-Jul-2015 18:43
Acenaphthylene	U		0.11	1.7	mg/Kg	10	15-Jul-2015 18:43
Acetophenone	U		0.11	1.7	mg/Kg	10	15-Jul-2015 18:43
Anthracene	U		0.12	1.7	mg/Kg	10	15-Jul-2015 18:43
Atrazine	U		0.40	1.7	mg/Kg	10	15-Jul-2015 18:43
Benz(a)anthracene	U		0.10	1.7	mg/Kg	10	15-Jul-2015 18:43
Benzaldehyde	U	n	0.40	1.7	mg/Kg	10	15-Jul-2015 18:43
Benzo(a)pyrene	U		0.12	1.7	mg/Kg	10	15-Jul-2015 18:43
Benzo(b)fluoranthene	U		0.12	1.7	mg/Kg	10	15-Jul-2015 18:43
Benzo(g,h,i)perylene	U		0.11	1.7	mg/Kg	10	15-Jul-2015 18:43
Benzo(k)fluoranthene	U		0.15	1.7	mg/Kg	10	15-Jul-2015 18:43
Bis(2-chloroethoxy)methane	U		0.12	1.7	mg/Kg	10	15-Jul-2015 18:43
Bis(2-chloroethyl)ether	U		0.13	1.7	mg/Kg	10	15-Jul-2015 18:43
Bis(2-chloroisopropyl)ether	U		0.11	1.7	mg/Kg	10	15-Jul-2015 18:43
Bis(2-ethylhexyl)phthalate	**640**		**0.13**	**1.7**	**mg/Kg**	10	15-Jul-2015 18:43

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Effective Environmental Inc. **ANALYTICAL REPORT**
Project: USOR - Storage Hopper Waste 8368 WorkOrder:HS15070410
Sample ID: USOR-Storage Hopper Liquid Lab ID:HS15070410-01
Collection Date: 08-Jul-2015 14:10 Matrix:Liquid

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
SEMIVOLATILES	**Method:SW8270**				Prep:SW3580A / 15-Jul-2015		Analyst: GEY
Butyl benzyl phthalate		U	0.12	1.7	mg/Kg	10	15-Jul-2015 18:43
Caprolactam		U	0.51	1.7	mg/Kg	10	15-Jul-2015 18:43
Carbazole		U	0.13	1.7	mg/Kg	10	15-Jul-2015 18:43
Chrysene		U	0.17	1.7	mg/Kg	10	15-Jul-2015 18:43
Dibenz(a,h)anthracene		U	0.15	1.7	mg/Kg	10	15-Jul-2015 18:43
Dibenzofuran		U	0.14	1.7	mg/Kg	10	15-Jul-2015 18:43
Diethyl phthalate		U	0.12	1.7	mg/Kg	10	15-Jul-2015 18:43
Dimethyl phthalate		U	0.15	1.7	mg/Kg	10	15-Jul-2015 18:43
Di-n-butyl phthalate		U	0.12	1.7	mg/Kg	10	15-Jul-2015 18:43
Di-n-octyl phthalate		U	0.19	1.7	mg/Kg	10	15-Jul-2015 18:43
Fluoranthene		U	0.14	1.7	mg/Kg	10	15-Jul-2015 18:43
Fluorene		U	0.17	1.7	mg/Kg	10	15-Jul-2015 18:43
Hexachlorobenzene		U	0.15	1.7	mg/Kg	10	15-Jul-2015 18:43
Hexachlorobutadiene		U	0.14	1.7	mg/Kg	10	15-Jul-2015 18:43
Hexachlorocyclopentadiene		U	0.14	1.7	mg/Kg	10	15-Jul-2015 18:43
Hexachloroethane		U	0.11	1.7	mg/Kg	10	15-Jul-2015 18:43
Indeno(1,2,3-cd)pyrene		U	0.14	1.7	mg/Kg	10	15-Jul-2015 18:43
Isophorone		U	0.11	1.7	mg/Kg	10	15-Jul-2015 18:43
Naphthalene		U	0.13	1.7	mg/Kg	10	15-Jul-2015 18:43
Nitrobenzene		U	0.14	1.7	mg/Kg	10	15-Jul-2015 18:43
N-Nitrosodi-n-propylamine		U	0.17	1.7	mg/Kg	10	15-Jul-2015 18:43
N-Nitrosodiphenylamine		U	0.12	1.7	mg/Kg	10	15-Jul-2015 18:43
Pentachlorophenol		U	0.11	1.7	mg/Kg	10	15-Jul-2015 18:43
Phenanthrene		U	0.14	1.7	mg/Kg	10	15-Jul-2015 18:43
Phenol		U	0.11	1.7	mg/Kg	10	15-Jul-2015 18:43
Pyrene		U	0.43	1.7	mg/Kg	10	15-Jul-2015 18:43
Surr: 2,4,6-Tribromophenol	*72.1*			*36-126*	*%REC*	*10*	*15-Jul-2015 18:43*
Surr: 2-Fluorobiphenyl	*91.8*			*43-125*	*%REC*	*10*	*15-Jul-2015 18:43*
Surr: 2-Fluorophenol	*73.4*			*37-125*	*%REC*	*10*	*15-Jul-2015 18:43*
Surr: 4-Terphenyl-d14	*85.2*			*32-125*	*%REC*	*10*	*15-Jul-2015 18:43*
Surr: Nitrobenzene-d5	*77.8*			*37-125*	*%REC*	*10*	*15-Jul-2015 18:43*
Surr: Phenol-d6	*63.7*			*40-125*	*%REC*	*10*	*15-Jul-2015 18:43*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Effective Environmental Inc.
Project: USOR - Storage Hopper Waste 8368
Sample ID: USOR-Storage Hopper Liquid
Collection Date: 08-Jul-2015 14:10

ANALYTICAL REPORT
WorkOrder:HS15070410
Lab ID:HS15070410-01
Matrix:Liquid

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		**Method:SW6020**			Prep:SW3010A / 10-Jul-2015		Analyst: RPM
Antimony	**0.0319**	J	**0.00400**	**0.0500**	**mg/L**	1	14-Jul-2015 11:56
Arsenic	**0.0102**	J	**0.00400**	**0.0500**	**mg/L**	1	14-Jul-2015 11:56
Barium	**0.0584**		**0.0190**	**0.0500**	**mg/L**	1	14-Jul-2015 11:56
Beryllium	U		0.00200	0.0200	mg/L	1	14-Jul-2015 11:56
Cadmium	**0.00446**	J	**0.00200**	**0.0200**	**mg/L**	1	14-Jul-2015 11:56
Chromium	**0.0140**	J	**0.00400**	**0.0500**	**mg/L**	1	14-Jul-2015 11:56
Lead	**1.23**		**0.00600**	**0.0500**	**mg/L**	1	14-Jul-2015 11:56
Nickel	**0.0551**		**0.00600**	**0.0500**	**mg/L**	1	14-Jul-2015 11:56
Selenium	U		0.0110	0.0500	mg/L	1	14-Jul-2015 11:56
Silver	**0.00242**	J	**0.00200**	**0.0500**	**mg/L**	1	14-Jul-2015 11:56
IGNITABILITY		**Method:SW1010**					Analyst: KAH
Ignitability	> 212		50.0	50.0	°F	1	14-Jul-2015 15:20
MERCURY BY SW7470A		**Method:SW7470**			Prep:SW7470 / 13-Jul-2015		Analyst: JCJ
Mercury	**0.00460**		**0.000320**	**0.00160**	**mg/L**	1	13-Jul-2015 16:47
TEXAS TPH BY TX1005		**Method:TX1005**			Prep:TX1005PR / 15-Jul-2015		Analyst: JKP
nC6 to nC12	U		5600	28000	mg/Kg	100	16-Jul-2015 03:30
>nC12 to nC28	**460,000**		**5600**	**28000**	**mg/Kg**	100	16-Jul-2015 03:30
>nC28 to nC35	**300,000**		**5600**	**28000**	**mg/Kg**	100	16-Jul-2015 03:30
Total Petroleum Hydrocarbon	**760,000**		**5600**	**28000**	**mg/Kg**	100	16-Jul-2015 03:30
Surr: 2-Fluorobiphenyl	*0*	*S*		*70-130*	*%REC*	*100*	*16-Jul-2015 03:30*
Surr: Trifluoromethyl benzene	*0*	*S*		*70-130*	*%REC*	*100*	*16-Jul-2015 03:30*
PH BY SM4500H+ B		**Method:SM4500H+ B**					Analyst: AP
pH	**6.56**	H	**0.100**	**0.100**	**pH Units**	1	10-Jul-2015 15:08
Temp Deg C @pH	**22.7**	H	**0**	**0**	**°C**	1	10-Jul-2015 15:08
REACTIVE CYANIDE		**Method:SW7.3.3.2**					Analyst: SUB
Reactive Cyanide	U		100	100	mg/Kg	1	15-Jul-2015 16:20
REACTIVE SULFIDE		**Method:SW7.3.4.2**					Analyst: SUB
Reactive Sulfide	U		100	100	mg/Kg	1	15-Jul-2015 15:15

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Effective Environmental Inc.
Project: USOR - Storage Hopper Waste 8368
WorkOrder: HS15070410

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID 95097	**Test Name :** ICP-MS METALS BY SW6020A			**Matrix:** Liquid		
HS15070410-01	USOR-Storage Hopper Liquid	08 Jul 2015 14:10		10 Jul 2015 08:48	14 Jul 2015 11:56	1
Batch ID 95163	**Test Name :** MERCURY BY SW7470A			**Matrix:** Liquid		
HS15070410-01	USOR-Storage Hopper Liquid	08 Jul 2015 14:10		13 Jul 2015 09:24	13 Jul 2015 16:47	1
Batch ID 95244	**Test Name :** SEMIVOLATILES			**Matrix:** Liquid		
HS15070410-01	USOR-Storage Hopper Liquid	08 Jul 2015 14:10		15 Jul 2015 07:56	15 Jul 2015 18:43	10
Batch ID 95249	**Test Name :** TEXAS TPH BY TX1005			**Matrix:** Liquid		
HS15070410-01	USOR-Storage Hopper Liquid	08 Jul 2015 14:10		15 Jul 2015 09:41	16 Jul 2015 03:30	100
Batch ID R257687	**Test Name :** PH BY SM4500H+ B			**Matrix:** Liquid		
HS15070410-01	USOR-Storage Hopper Liquid	08 Jul 2015 14:10			10 Jul 2015 15:08	1
Batch ID R257851	**Test Name :** IGNITABILITY			**Matrix:** Liquid		
HS15070410-01	USOR-Storage Hopper Liquid	08 Jul 2015 14:10			14 Jul 2015 15:20	1
Batch ID R257962	**Test Name :** REACTIVE SULFIDE			**Matrix:** Liquid		
HS15070410-01	USOR-Storage Hopper Liquid	08 Jul 2015 14:10			15 Jul 2015 16:20	1
HS15070410-01	USOR-Storage Hopper Liquid	08 Jul 2015 14:10			15 Jul 2015 16:20	1
HS15070410-01	USOR-Storage Hopper Liquid	08 Jul 2015 14:10			15 Jul 2015 15:15	1
HS15070410-01	USOR-Storage Hopper Liquid	08 Jul 2015 14:10			15 Jul 2015 15:15	1
Batch ID R258086	**Test Name :** VOLATILES BY SW8260C			**Matrix:** Liquid		
HS15070410-01	USOR-Storage Hopper Liquid	08 Jul 2015 14:10			17 Jul 2015 12:49	500

Client: Effective Environmental Inc.
Project: USOR - Storage Hopper Waste 8368
WorkOrder: HS15070410

QC BATCH REPORT

Batch ID: 95249 **Instrument: FID-13** **Method: TX1005**

MBLK Sample ID: **MBLK-95249** Units: **mg/Kg** Analysis Date: **15-Jul-2015 23:48**
Client ID: Run ID: **FID-13_257941** SeqNo: **3356667** PrepDate: **15-Jul-2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	U	50								
>nC12 to nC28	U	50								
>nC28 to nC35	U	50								
Total Petroleum Hydrocarbon	U	50								
Surr: 2-Fluorobiphenyl	*26.02*	*0*	*25*	*0*	*104*	*70 - 130*				
Surr: Trifluoromethyl benzene	*26.15*	*0*	*25*	*0*	*105*	*70 - 130*				

LCS Sample ID: **LCS-95249** Units: **mg/Kg** Analysis Date: **16-Jul-2015 00:20**
Client ID: Run ID: **FID-13_257941** SeqNo: **3356668** PrepDate: **15-Jul-2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	393	50	500	0	78.6	75 - 125				
>nC12 to nC28	542.2	50	500	0	108	75 - 125				
Surr: 2-Fluorobiphenyl	*31.43*	*0*	*25*	*0*	*126*	*70 - 130*				
Surr: Trifluoromethyl benzene	*28.7*	*0*	*25*	*0*	*115*	*70 - 130*				

LCSD Sample ID: **LCSD-95249** Units: **mg/Kg** Analysis Date: **16-Jul-2015 00:52**
Client ID: Run ID: **FID-13_257941** SeqNo: **3356669** PrepDate: **15-Jul-2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	396.3	50	500	0	79.3	75 - 125	393	0.849	20	
>nC12 to nC28	524.5	50	500	0	105	75 - 125	542.2	3.32	20	
Surr: 2-Fluorobiphenyl	*29.95*	*0*	*25*	*0*	*120*	*70 - 130*	*31.43*	*4.81*	*20*	
Surr: Trifluoromethyl benzene	*29.84*	*0*	*25*	*0*	*119*	*70 - 130*	*28.7*	*3.9*	*20*	

MS Sample ID: **HS15070470-01MS** Units: **mg/Kg** Analysis Date: **16-Jul-2015 01:56**
Client ID: Run ID: **FID-13_257941** SeqNo: **3356671** PrepDate: **15-Jul-2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	216.1	50	249.3	0	86.7	75 - 125				
>nC12 to nC28	245.6	50	249.3	4.492	96.7	75 - 125				
Surr: 2-Fluorobiphenyl	*30.24*	*0*	*24.93*	*0*	*121*	*70 - 130*				
Surr: Trifluoromethyl benzene	*28.99*	*0*	*24.93*	*0*	*116*	*70 - 130*				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Effective Environmental Inc.
Project: USOR - Storage Hopper Waste 8368
WorkOrder: HS15070410

QC BATCH REPORT

Batch ID: 95249 **Instrument: FID-13** **Method: TX1005**

MSD Sample ID: **HS15070470-01MSD** Units: **mg/Kg** Analysis Date: **16-Jul-2015 02:27**
Client ID: Run ID: **FID-13_257941** SeqNo: **3356672** PrepDate: **15-Jul-2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	221.4	50	249.3	0	88.8	75 - 125	216.1	2.43	20	
>nC12 to nC28	224.7	50	249.3	4.492	88.4	75 - 125	245.6	8.9	20	
Surr: 2-Fluorobiphenyl	*29.93*	*0*	*24.93*	*0*	*120*	*70 - 130*	*30.24*	*1.04*	*20*	
Surr: Trifluoromethyl benzene	*27.56*	*0*	*24.93*	*0*	*111*	*70 - 130*	*28.99*	*5.08*	*20*	

The following samples were anayzed in this batch: HS15070410-01

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Effective Environmental Inc.
Project: USOR - Storage Hopper Waste 8368
WorkOrder: HS15070410

QC BATCH REPORT

Batch ID: 95097 **Instrument: ICPMS05** **Method: SW6020**

MBLK Sample ID: **MBLK-95097** Units: **mg/L** Analysis Date: **14-Jul-2015 10:22**
Client ID: Run ID: **ICPMS05_257811** SeqNo: **3353415** PrepDate: **10-Jul-2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	U	0.00500								
Arsenic	U	0.00500								
Barium	U	0.00500								
Beryllium	U	0.00200								
Cadmium	U	0.00200								
Chromium	U	0.00500								
Lead	U	0.00500								
Nickel	U	0.00500								
Selenium	U	0.00500								
Silver	U	0.00500								

LCS Sample ID: **MLCS-95097** Units: **mg/L** Analysis Date: **14-Jul-2015 10:25**
Client ID: Run ID: **ICPMS05_257811** SeqNo: **3353416** PrepDate: **10-Jul-2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.04426	0.00500	0.05	0	88.5	80 - 120				
Arsenic	0.04354	0.00500	0.05	0	87.1	80 - 120				
Barium	0.04359	0.00500	0.05	0	87.2	80 - 120				
Beryllium	0.04468	0.00200	0.05	0	89.4	80 - 120				
Cadmium	0.04574	0.00200	0.05	0	91.5	80 - 120				
Chromium	0.04344	0.00500	0.05	0	86.9	80 - 120				
Lead	0.04491	0.00500	0.05	0	89.8	80 - 120				
Nickel	0.04244	0.00500	0.05	0	84.9	80 - 120				
Selenium	0.04343	0.00500	0.05	0	86.9	80 - 120				
Silver	0.04592	0.00500	0.05	0	91.8	80 - 120				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Effective Environmental Inc.
Project: USOR - Storage Hopper Waste 8368
WorkOrder: HS15070410

QC BATCH REPORT

Batch ID: 95097 **Instrument: ICPMS05** **Method: SW6020**

MS Sample ID: **HS15070203-05MS** Units: **mg/L** Analysis Date: **14-Jul-2015 10:54**
Client ID: Run ID: **ICPMS05_257811** SeqNo: **3353427** PrepDate: **10-Jul-2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.04304	0.00500	0.05	0.000066	86.0	80 - 120				
Arsenic	0.04643	0.00500	0.05	0.003532	85.8	80 - 120				
Barium	0.06709	0.00500	0.05	0.02671	80.8	80 - 120				
Beryllium	0.0535	0.00200	0.05	0.001953	103	80 - 120				
Cadmium	0.04284	0.00200	0.05	0.000269	85.1	80 - 120				
Chromium	0.04126	0.00500	0.05	0.000406	81.7	80 - 120				
Lead	0.04327	0.00500	0.05	0.001487	83.6	80 - 120				
Nickel	0.07036	0.00500	0.05	0.03084	79.0	80 - 120				S
Selenium	0.04254	0.00500	0.05	0.000912	83.3	80 - 120				
Silver	0.04263	0.00500	0.05	0.000115	85.0	80 - 120				

MSD Sample ID: **HS15070203-05MSD** Units: **mg/L** Analysis Date: **14-Jul-2015 10:56**
Client ID: Run ID: **ICPMS05_257811** SeqNo: **3353428** PrepDate: **10-Jul-2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.04318	0.00500	0.05	0.000066	86.2	80 - 120	0.04304	0.332	20	
Arsenic	0.04709	0.00500	0.05	0.003532	87.1	80 - 120	0.04643	1.4	20	
Barium	0.06955	0.00500	0.05	0.02671	85.7	80 - 120	0.06709	3.59	20	
Beryllium	0.05292	0.00200	0.05	0.001953	102	80 - 120	0.0535	1.09	20	
Cadmium	0.04396	0.00200	0.05	0.000269	87.4	80 - 120	0.04284	2.57	20	
Chromium	0.04142	0.00500	0.05	0.000406	82.0	80 - 120	0.04126	0.389	20	
Lead	0.04389	0.00500	0.05	0.001487	84.8	80 - 120	0.04327	1.42	20	
Nickel	0.07053	0.00500	0.05	0.03084	79.4	80 - 120	0.07036	0.236	20	S
Selenium	0.04594	0.00500	0.05	0.000912	90.1	80 - 120	0.04254	7.69	20	
Silver	0.04287	0.00500	0.05	0.000115	85.5	80 - 120	0.04263	0.552	20	

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Effective Environmental Inc.
Project: USOR - Storage Hopper Waste 8368
WorkOrder: HS15070410

QC BATCH REPORT

Batch ID: 95097 **Instrument: ICPMS05** **Method: SW6020**

DUP Sample ID: **HS15070203-05DUP** Units: **mg/L** Analysis Date: **14-Jul-2015 10:48**
Client ID: Run ID: **ICPMS05_257811** SeqNo: **3353425** PrepDate: **10-Jul-2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	U	0.00500					0.000066	0	20	
Arsenic	0.003417	0.00500					0.003532	0	20	J
Barium	0.02594	0.00500					0.02671	2.95	20	
Beryllium	0.001809	0.00200					0.001953	0	20	J
Cadmium	0.00022	0.00200					0.000269	0	20	J
Chromium	0.000475	0.00500					0.000406	0	20	J
Lead	0.001322	0.00500					0.001487	0	20	J
Nickel	0.03084	0.00500					0.03084	0.00973	20	
Selenium	U	0.00500					0.000912	0	20	
Silver	U	0.00500					0.000115	0	20	

PDS Sample ID: **HS15070203-05BS** Units: **mg/L** Analysis Date: **14-Jul-2015 10:59**
Client ID: Run ID: **ICPMS05_257811** SeqNo: **3353429** PrepDate: **10-Jul-2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.08517	0.00500	0.1	0	85.2	75 - 125				
Arsenic	0.08998	0.00500	0.1	0.003532	86.4	75 - 125				
Barium	0.1128	0.00500	0.1	0.02671	86.1	75 - 125				
Beryllium	0.08965	0.00200	0.1	0.001953	87.7	75 - 125				
Cadmium	0.08868	0.00200	0.1	0.000269	88.4	75 - 125				
Chromium	0.08504	0.00500	0.1	0.000406	84.6	75 - 125				
Lead	0.08755	0.00500	0.1	0.001487	86.1	75 - 125				
Nickel	0.1132	0.00500	0.1	0.03084	82.4	75 - 125				
Selenium	0.08832	0.00500	0.1	0	88.3	75 - 125				
Silver	0.08347	0.00500	0.1	0	83.5	75 - 125				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Effective Environmental Inc.
Project: USOR - Storage Hopper Waste 8368
WorkOrder: HS15070410

QC BATCH REPORT

Batch ID: 95097 **Instrument: ICPMS05** **Method: SW6020**

SD Sample ID: **HS15070203-05 DIL SX** Units: **mg/L** Analysis Date: **14-Jul-2015 10:51**
Client ID: Run ID: **ICPMS05_257811** SeqNo: **3353426** PrepDate: **10-Jul-2015** DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit	Qual
Antimony	U	0.0250					0.000066	0	10	
Arsenic	0.002973	0.0250					0.003532	0	10	J
Barium	0.02619	0.0250					0.02671	1.94	10	
Beryllium	0.001721	0.0100					0.001953	0	10	J
Cadmium	U	0.0100					0.000269	0	10	
Chromium	U	0.0250					0.000406	0	10	
Lead	U	0.0250					0.001487	0	10	
Nickel	0.03275	0.0250					0.03084	6.2	10	
Selenium	U	0.0250					0.000912	0	10	
Silver	U	0.0250					0.000115	0	10	

The following samples were anayzed in this batch: HS15070410-01

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Effective Environmental Inc.
Project: USOR - Storage Hopper Waste 8368
WorkOrder: HS15070410

QC BATCH REPORT

Batch ID: 95163 **Instrument: HG03** **Method: SW7470**

MBLK Sample ID: **MBLK-95163** Units: **mg/L** Analysis Date: **13-Jul-2015 16:27**
Client ID: Run ID: **HG03_257785** SeqNo: **3352748** PrepDate: **13-Jul-2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	U	0.000200								

LCS Sample ID: **LCS-95163** Units: **mg/L** Analysis Date: **13-Jul-2015 16:28**
Client ID: Run ID: **HG03_257785** SeqNo: **3352749** PrepDate: **13-Jul-2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00474	0.000200	0.005	0	94.8	80 - 124				

MS Sample ID: **HS15070374-01MS** Units: **mg/L** Analysis Date: **13-Jul-2015 16:42**
Client ID: Run ID: **HG03_257785** SeqNo: **3352757** PrepDate: **13-Jul-2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00509	0.000200	0.005	-0.000008	102	80 - 124				

MSD Sample ID: **HS15070374-01MSD** Units: **mg/L** Analysis Date: **13-Jul-2015 16:44**
Client ID: Run ID: **HG03_257785** SeqNo: **3352758** PrepDate: **13-Jul-2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00495	0.000200	0.005	-0.000008	99.2	80 - 124	0.00509	2.79	20	

DUP Sample ID: **HS15070374-01DUP** Units: **mg/L** Analysis Date: **13-Jul-2015 16:40**
Client ID: Run ID: **HG03_257785** SeqNo: **3352756** PrepDate: **13-Jul-2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	U	0.000200					-0.000008	0	20	

The following samples were anayzed in this batch: HS15070410-01

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Effective Environmental Inc.
Project: USOR - Storage Hopper Waste 8368
WorkOrder: HS15070410

QC BATCH REPORT

Batch ID: 95244 **Instrument: SV-5** **Method: SW8270**

MBLK Sample ID: **MBLK-95244** Units: **ug/Kg** Analysis Date: **15-Jul-2015 15:30**
Client ID: Run ID: **SV-5_257952** SeqNo: **3357302** PrepDate: **15-Jul-2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1´-Biphenyl	U	170								
2,4,5-Trichlorophenol	U	170								
2,4,6-Trichlorophenol	U	170								
2,4-Dichlorophenol	U	170								
2,4-Dimethylphenol	U	170								
2,4-Dinitrophenol	U	170								
2,4-Dinitrotoluene	U	170								
2,6-Dinitrotoluene	U	170								
2-Chloronaphthalene	U	170								
2-Chlorophenol	U	170								
2-Methylnaphthalene	U	170								
2-Methylphenol	U	170								
2-Nitroaniline	U	170								
2-Nitrophenol	U	170								
3&4-Methylphenol	U	170								
3,3´-Dichlorobenzidine	U	170								
3-Nitroaniline	U	170								
4,6-Dinitro-2-methylphenol	U	170								
4-Bromophenyl phenyl ether	U	170								
4-Chloro-3-methylphenol	U	170								
4-Chloroaniline	U	170								
4-Chlorophenyl phenyl ether	U	170								
4-Nitroaniline	U	170								
4-Nitrophenol	U	170								
Acenaphthene	U	170								
Acenaphthylene	U	170								
Acetophenone	U	170								
Anthracene	U	170								
Atrazine	U	170								
Benz(a)anthracene	U	170								
Benzaldehyde	U	170								
Benzo(a)pyrene	U	170								
Benzo(b)fluoranthene	U	170								
Benzo(g,h,i)perylene	U	170								

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Effective Environmental Inc.
Project: USOR - Storage Hopper Waste 8368
WorkOrder: HS15070410

QC BATCH REPORT

Batch ID: 95244 **Instrument: SV-5** **Method: SW8270**

MBLK Sample ID: **MBLK-95244** Units: **ug/Kg** Analysis Date: **15-Jul-2015 15:30**
Client ID: Run ID: **SV-5_257952** SeqNo: **3357302** PrepDate: **15-Jul-2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzo(k)fluoranthene	U	170								
Bis(2-chloroethoxy)methane	U	170								
Bis(2-chloroethyl)ether	U	170								
Bis(2-chloroisopropyl)ether	U	170								
Bis(2-ethylhexyl)phthalate	U	170								
Butyl benzyl phthalate	U	170								
Caprolactam	U	170								
Carbazole	U	170								
Chrysene	U	170								
Dibenz(a,h)anthracene	U	170								
Dibenzofuran	U	170								
Diethyl phthalate	U	170								
Dimethyl phthalate	U	170								
Di-n-butyl phthalate	U	170								
Di-n-octyl phthalate	U	170								
Fluoranthene	U	170								
Fluorene	U	170								
Hexachlorobenzene	U	170								
Hexachlorobutadiene	U	170								
Hexachlorocyclopentadiene	U	170								
Hexachloroethane	U	170								
Indeno(1,2,3-cd)pyrene	U	170								
Isophorone	U	170								
Naphthalene	U	170								
Nitrobenzene	U	170								
N-Nitrosodi-n-propylamine	U	170								
N-Nitrosodiphenylamine	U	170								
Pentachlorophenol	U	170								
Phenanthrene	U	170								
Phenol	U	170								
Pyrene	U	170								
Surr: 2,4,6-Tribromophenol	*91400*	*170*	*111100*	*0*	*82.3*	*36 - 126*				
Surr: 2-Fluorobiphenyl	*91080*	*170*	*111100*	*0*	*82.0*	*43 - 125*				
Surr: 2-Fluorophenol	*84900*	*170*	*111100*	*0*	*76.4*	*37 - 125*				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Effective Environmental Inc.
Project: USOR - Storage Hopper Waste 8368
WorkOrder: HS15070410

QC BATCH REPORT

Batch ID: 95244 **Instrument: SV-5** **Method: SW8270**

MBLK Sample ID: **MBLK-95244** Units: **ug/Kg** Analysis Date: **15-Jul-2015 15:30**
Client ID: Run ID: **SV-5_257952** SeqNo: **3357302** PrepDate: **15-Jul-2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Surr: 4-Terphenyl-d14	*81110*	*170*	*111100*	*0*	*73.0*	*32 - 125*				
Surr: Nitrobenzene-d5	*81710*	*170*	*111100*	*0*	*73.5*	*37 - 125*				
Surr: Phenol-d6	*81530*	*170*	*111100*	*0*	*73.4*	*40 - 125*				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Effective Environmental Inc.
Project: USOR - Storage Hopper Waste 8368
WorkOrder: HS15070410

QC BATCH REPORT

Batch ID: 95244 **Instrument: SV-5** **Method: SW8270**

LCS Sample ID: **LCS-95244** Units: **ug/Kg** Analysis Date: **15-Jul-2015 13:59**
Client ID: Run ID: **SV-5_257952** SeqNo: **3357300** PrepDate: **15-Jul-2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1´-Biphenyl	59440	170	55570	0	107	55 - 120				
2,4,5-Trichlorophenol	108600	170	111100	0	97.7	55 - 120				
2,4,6-Trichlorophenol	97540	170	111100	0	87.8	55 - 120				
2,4-Dichlorophenol	94080	170	111100	0	84.7	55 - 120				
2,4-Dimethylphenol	92590	170	111100	0	83.3	55 - 125				
2,4-Dinitrophenol	99000	170	111100	0	89.1	40 - 125				
2,4-Dinitrotoluene	50620	170	55570	0	91.1	55 - 125				
2,6-Dinitrotoluene	50870	170	55570	0	91.5	55 - 120				
2-Chloronaphthalene	52630	170	55570	0	94.7	55 - 145				
2-Chlorophenol	92930	170	111100	0	83.6	55 - 120				
2-Methylnaphthalene	45870	170	55570	0	82.6	55 - 120				
2-Methylphenol	92800	170	111100	0	83.5	55 - 120				
2-Nitroaniline	64790	170	55570	0	117	55 - 130				
2-Nitrophenol	94970	170	111100	0	85.5	55 - 120				
3&4-Methylphenol	132500	170	166700	0	79.5	55 - 120				
3,3´-Dichlorobenzidine	41820	170	55570	0	75.3	32 - 125				
3-Nitroaniline	37390	170	55570	0	67.3	43 - 120				
4,6-Dinitro-2-methylphenol	97150	170	111100	0	87.4	50 - 130				
4-Bromophenyl phenyl ether	45760	170	55570	0	82.3	55 - 120				
4-Chloro-3-methylphenol	97270	170	111100	0	87.6	55 - 120				
4-Chloroaniline	25760	170	55570	0	46.4	30 - 120				
4-Chlorophenyl phenyl ether	49250	170	55570	0	88.6	55 - 120				
4-Nitroaniline	50590	170	55570	0	91.0	55 - 120				
4-Nitrophenol	102400	170	111100	0	92.2	50 - 130				
Acenaphthene	51530	170	55570	0	92.7	55 - 120				
Acenaphthylene	50770	170	55570	0	91.4	55 - 120				
Acetophenone	50770	170	55570	0	91.4	54 - 120				
Anthracene	43650	170	55570	0	78.6	55 - 120				
Atrazine	55010	170	55570	0	99.0	55 - 130				
Benz(a)anthracene	41620	170	55570	0	74.9	55 - 125				
Benzaldehyde	54780	170	55570	0	98.6	20 - 132				
Benzo(a)pyrene	37550	170	55570	0	67.6	55 - 120				
Benzo(b)fluoranthene	35260	170	55570	0	63.4	55 - 125				
Benzo(g,h,i)perylene	39270	170	55570	0	70.7	55 - 120				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Effective Environmental Inc.
Project: USOR - Storage Hopper Waste 8368
WorkOrder: HS15070410

QC BATCH REPORT

Batch ID: 95244 **Instrument: SV-5** **Method: SW8270**

LCS Sample ID: **LCS-95244** Units: **ug/Kg** Analysis Date: **15-Jul-2015 13:59**
Client ID: Run ID: **SV-5_257952** SeqNo: **3357300** PrepDate: **15-Jul-2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzo(k)fluoranthene	44960	170	55570	0	80.9	55 - 130				
Bis(2-chloroethoxy)methane	48670	170	55570	0	87.6	55 - 120				
Bis(2-chloroethyl)ether	42020	170	55570	0	75.6	55 - 120				
Bis(2-chloroisopropyl)ether	49150	170	55570	0	88.5	55 - 120				
Bis(2-ethylhexyl)phthalate	44270	170	55570	0	79.7	55 - 125				
Butyl benzyl phthalate	45750	170	55570	0	82.3	55 - 125				
Caprolactam	53260	170	55570	0	95.8	55 - 140				
Carbazole	44040	170	55570	0	79.3	55 - 120				
Chrysene	46800	170	55570	0	84.2	55 - 125				
Dibenz(a,h)anthracene	36140	170	55570	0	65.0	55 - 120				
Dibenzofuran	51100	170	55570	0	92.0	55 - 120				
Diethyl phthalate	51220	170	55570	0	92.2	55 - 120				
Dimethyl phthalate	53350	170	55570	0	96.0	55 - 120				
Di-n-butyl phthalate	43590	170	55570	0	78.4	55 - 125				
Di-n-octyl phthalate	34400	170	55570	0	61.9	55 - 130				
Fluoranthene	42890	170	55570	0	77.2	55 - 125				
Fluorene	49990	170	55570	0	90.0	55 - 120				
Hexachlorobenzene	45110	170	55570	0	81.2	55 - 120				
Hexachlorobutadiene	48440	170	55570	0	87.2	55 - 120				
Hexachlorocyclopentadiene	57050	170	55570	0	103	50 - 120				
Hexachloroethane	48560	170	55570	0	87.4	55 - 120				
Indeno(1,2,3-cd)pyrene	32120	170	55570	0	57.8	55 - 125				
Isophorone	51580	170	55570	0	92.8	55 - 120				
Naphthalene	48390	170	55570	0	87.1	55 - 120				
Nitrobenzene	49320	170	55570	0	88.8	55 - 120				
N-Nitrosodi-n-propylamine	47810	170	55570	0	86.0	55 - 120				
N-Nitrosodiphenylamine	42900	170	55570	0	77.2	55 - 120				
Pentachlorophenol	93500	170	111100	0	84.2	50 - 135				
Phenanthrene	44790	170	55570	0	80.6	55 - 120				
Phenol	95060	170	111100	0	85.6	50 - 120				
Pyrene	48250	170	55570	0	86.8	55 - 125				
Surr: 2,4,6-Tribromophenol	*109800*	*170*	*111100*	*0*	*98.8*	*36 - 126*				
Surr: 2-Fluorobiphenyl	*103800*	*170*	*111100*	*0*	*93.4*	*43 - 125*				
Surr: 2-Fluorophenol	*106900*	*170*	*111100*	*0*	*96.2*	*37 - 125*				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Effective Environmental Inc.
Project: USOR - Storage Hopper Waste 8368
WorkOrder: HS15070410

QC BATCH REPORT

Batch ID: 95244 **Instrument: SV-5** **Method: SW8270**

LCS Sample ID: **LCS-95244** Units: **ug/Kg** Analysis Date: **15-Jul-2015 13:59**
Client ID: Run ID: **SV-5_257952** SeqNo: **3357300** PrepDate: **15-Jul-2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Surr: 4-Terphenyl-d14	*93530*	*170*	*111100*	*0*	*84.2*	*32 - 125*				
Surr: Nitrobenzene-d5	*96030*	*170*	*111100*	*0*	*86.4*	*37 - 125*				
Surr: Phenol-d6	*101500*	*170*	*111100*	*0*	*91.4*	*40 - 125*				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Effective Environmental Inc.
Project: USOR - Storage Hopper Waste 8368
WorkOrder: HS15070410

QC BATCH REPORT

Batch ID: 95244 **Instrument: SV-5** **Method: SW8270**

LCSD Sample ID: **LCSD-95244** Units: **ug/Kg** Analysis Date: **15-Jul-2015 14:22**
Client ID: Run ID: **SV-5_257952** SeqNo: **3357301** PrepDate: **15-Jul-2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1´-Biphenyl	61650	170	55570	0	111	55 - 120	59440	3.66	30	
2,4,5-Trichlorophenol	105600	170	111100	0	95.0	55 - 120	108600	2.82	30	
2,4,6-Trichlorophenol	101600	170	111100	0	91.4	55 - 120	97540	4.06	30	
2,4-Dichlorophenol	92340	170	111100	0	83.1	55 - 120	94080	1.87	30	
2,4-Dimethylphenol	93110	170	111100	0	83.8	55 - 125	92590	0.564	30	
2,4-Dinitrophenol	92690	170	111100	0	83.4	40 - 125	99000	6.59	30	
2,4-Dinitrotoluene	49520	170	55570	0	89.1	55 - 125	50620	2.19	30	
2,6-Dinitrotoluene	50440	170	55570	0	90.8	55 - 120	50870	0.855	30	
2-Chloronaphthalene	54070	170	55570	0	97.3	55 - 145	52630	2.7	30	
2-Chlorophenol	90400	170	111100	0	81.4	55 - 120	92930	2.76	30	
2-Methylnaphthalene	44930	170	55570	0	80.9	55 - 120	45870	2.07	30	
2-Methylphenol	89740	170	111100	0	80.8	55 - 120	92800	3.36	30	
2-Nitroaniline	66170	170	55570	0	119	55 - 130	64790	2.11	30	
2-Nitrophenol	95800	170	111100	0	86.2	55 - 120	94970	0.865	30	
3&4-Methylphenol	125600	170	166700	0	75.4	55 - 120	132500	5.33	30	
3,3´-Dichlorobenzidine	40700	170	55570	0	73.2	32 - 125	41820	2.72	30	
3-Nitroaniline	40040	170	55570	0	72.1	43 - 120	37390	6.85	30	
4,6-Dinitro-2-methylphenol	95090	170	111100	0	85.6	50 - 130	97150	2.15	30	
4-Bromophenyl phenyl ether	46390	170	55570	0	83.5	55 - 120	45760	1.37	30	
4-Chloro-3-methylphenol	95030	170	111100	0	85.5	55 - 120	97270	2.33	30	
4-Chloroaniline	23720	170	55570	0	42.7	30 - 120	25760	8.23	30	
4-Chlorophenyl phenyl ether	49690	170	55570	0	89.4	55 - 120	49250	0.881	30	
4-Nitroaniline	50480	170	55570	0	90.9	55 - 120	50590	0.213	30	
4-Nitrophenol	102100	170	111100	0	91.9	50 - 130	102400	0.32	30	
Acenaphthene	52120	170	55570	0	93.8	55 - 120	51530	1.14	30	
Acenaphthylene	52160	170	55570	0	93.9	55 - 120	50770	2.71	30	
Acetophenone	50680	170	55570	0	91.2	54 - 120	50770	0.177	30	
Anthracene	43650	170	55570	0	78.6	55 - 120	43650	0.00932	30	
Atrazine	55780	170	55570	0	100	55 - 130	55010	1.39	30	
Benz(a)anthracene	46640	170	55570	0	83.9	55 - 125	41620	11.4	30	
Benzaldehyde	54990	170	55570	0	99.0	20 - 132	54780	0.383	30	
Benzo(a)pyrene	36530	170	55570	0	65.7	55 - 120	37550	2.78	30	
Benzo(b)fluoranthene	32990	170	55570	0	59.4	55 - 125	35260	6.65	30	
Benzo(g,h,i)perylene	38380	170	55570	0	69.1	55 - 120	39270	2.3	30	

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Effective Environmental Inc.
Project: USOR - Storage Hopper Waste 8368
WorkOrder: HS15070410

QC BATCH REPORT

Batch ID: 95244 **Instrument: SV-5** **Method: SW8270**

LCSD Sample ID: **LCSD-95244** Units: **ug/Kg** Analysis Date: **15-Jul-2015 14:22**
Client ID: Run ID: **SV-5_257952** SeqNo: **3357301** PrepDate: **15-Jul-2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Benzo(k)fluoranthene	43580	170	55570	0	78.4	55 - 130	44960	3.11	30	
Bis(2-chloroethoxy)methane	48360	170	55570	0	87.0	55 - 120	48670	0.647	30	
Bis(2-chloroethyl)ether	41720	170	55570	0	75.1	55 - 120	42020	0.721	30	
Bis(2-chloroisopropyl)ether	48030	170	55570	0	86.4	55 - 120	49150	2.31	30	
Bis(2-ethylhexyl)phthalate	43300	170	55570	0	77.9	55 - 125	44270	2.22	30	
Butyl benzyl phthalate	45930	170	55570	0	82.7	55 - 125	45750	0.398	30	
Caprolactam	51490	170	55570	0	92.7	55 - 140	53260	3.38	30	
Carbazole	43980	170	55570	0	79.1	55 - 120	44040	0.145	30	
Chrysene	47100	170	55570	0	84.8	55 - 125	46800	0.638	30	
Dibenz(a,h)anthracene	34940	170	55570	0	62.9	55 - 120	36140	3.38	30	
Dibenzofuran	51930	170	55570	0	93.5	55 - 120	51100	1.61	30	
Diethyl phthalate	52300	170	55570	0	94.1	55 - 120	51220	2.09	30	
Dimethyl phthalate	55270	170	55570	0	99.5	55 - 120	53350	3.53	30	
Di-n-butyl phthalate	43070	170	55570	0	77.5	55 - 125	43590	1.19	30	
Di-n-octyl phthalate	32950	170	55570	0	59.3	55 - 130	34400	4.31	30	
Fluoranthene	42570	170	55570	0	76.6	55 - 125	42890	0.746	30	
Fluorene	50220	170	55570	0	90.4	55 - 120	49990	0.474	30	
Hexachlorobenzene	46840	170	55570	0	84.3	55 - 120	45110	3.76	30	
Hexachlorobutadiene	49000	170	55570	0	88.2	55 - 120	48440	1.16	30	
Hexachlorocyclopentadiene	59220	170	55570	0	107	50 - 120	57050	3.74	30	
Hexachloroethane	47730	170	55570	0	85.9	55 - 120	48560	1.74	30	
Indeno(1,2,3-cd)pyrene	31590	170	55570	0	56.8	55 - 125	32120	1.65	30	
Isophorone	51170	170	55570	0	92.1	55 - 120	51580	0.804	30	
Naphthalene	48580	170	55570	0	87.4	55 - 120	48390	0.402	30	
Nitrobenzene	49710	170	55570	0	89.5	55 - 120	49320	0.796	30	
N-Nitrosodi-n-propylamine	46360	170	55570	0	83.4	55 - 120	47810	3.07	30	
N-Nitrosodiphenylamine	44910	170	55570	0	80.8	55 - 120	42900	4.59	30	
Pentachlorophenol	93190	170	111100	0	83.9	50 - 135	93500	0.335	30	
Phenanthrene	44470	170	55570	0	80.0	55 - 120	44790	0.707	30	
Phenol	89890	170	111100	0	80.9	50 - 120	95060	5.58	30	
Pyrene	48930	170	55570	0	88.1	55 - 125	48250	1.4	30	
Surr: 2,4,6-Tribromophenol	*109200*	*170*	*111100*	*0*	*98.3*	*36 - 126*	*109800*	*0.567*	*30*	
Surr: 2-Fluorobiphenyl	*105800*	*170*	*111100*	*0*	*95.3*	*43 - 125*	*103800*	*1.93*	*30*	
Surr: 2-Fluorophenol	*107300*	*170*	*111100*	*0*	*96.6*	*37 - 125*	*106900*	*0.433*	*30*	

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Effective Environmental Inc.
Project: USOR - Storage Hopper Waste 8368
WorkOrder: HS15070410

QC BATCH REPORT

Batch ID: 95244 **Instrument: SV-5** **Method: SW8270**

LCSD Sample ID: **LCSD-95244** Units: **ug/Kg** Analysis Date: **15-Jul-2015 14:22**
Client ID: Run ID: **SV-5_257952** SeqNo: **3357301** PrepDate: **15-Jul-2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Surr: 4-Terphenyl-d14	*93180*	*170*	*111100*	*0*	*83.9*	*32 - 125*	*93530*	*0.384*	*30*	
Surr: Nitrobenzene-d5	*96590*	*170*	*111100*	*0*	*86.9*	*37 - 125*	*96030*	*0.576*	*30*	
Surr: Phenol-d6	*99060*	*170*	*111100*	*0*	*89.2*	*40 - 125*	*101500*	*2.43*	*30*	

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Effective Environmental Inc.
Project: USOR - Storage Hopper Waste 8368
WorkOrder: HS15070410

QC BATCH REPORT

Batch ID: 95244 **Instrument: SV-5** **Method: SW8270**

MS Sample ID: **HS15070410-01MS** Units: **ug/Kg** Analysis Date: **15-Jul-2015 19:09**
Client ID: **USOR-Storage Hopper Liquid** Run ID: **SV-5_257952** SeqNo: **3357308** PrepDate: **15-Jul-2015** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1´-Biphenyl	71090	1700	55570	0	128	55 - 120				S
2,4,5-Trichlorophenol	79620	1700	111100	0	71.7	55 - 120				
2,4,6-Trichlorophenol	86040	1700	111100	0	77.4	55 - 120				
2,4-Dichlorophenol	70610	1700	111100	0	63.6	55 - 120				
2,4-Dimethylphenol	95920	1700	111100	0	86.3	55 - 125				
2,4-Dinitrophenol	28100	1700	111100	0	25.3	40 - 125				S
2,4-Dinitrotoluene	84320	1700	55570	0	152	55 - 125				S
2,6-Dinitrotoluene	65430	1700	55570	0	118	55 - 120				
2-Chloronaphthalene	50400	1700	55570	0	90.7	55 - 145				
2-Chlorophenol	87590	1700	111100	0	78.8	55 - 120				
2-Methylnaphthalene	48670	1700	55570	0	87.6	55 - 120				
2-Methylphenol	98320	1700	111100	0	88.5	55 - 120				
2-Nitroaniline	76050	1700	55570	0	137	55 - 130				S
2-Nitrophenol	85090	1700	111100	0	76.6	55 - 120				
3&4-Methylphenol	118800	1700	166700	0	71.3	55 - 120				
3,3´-Dichlorobenzidine	52730	1700	55570	0	94.9	32 - 125				
3-Nitroaniline	40820	1700	55570	0	73.5	43 - 120				
4,6-Dinitro-2-methylphenol	68580	1700	111100	0	61.7	50 - 130				
4-Bromophenyl phenyl ether	40360	1700	55570	0	72.6	55 - 120				
4-Chloro-3-methylphenol	66610	1700	111100	0	60.0	55 - 120				
4-Chloroaniline	38440	1700	55570	0	69.2	30 - 120				
4-Chlorophenyl phenyl ether	58340	1700	55570	0	105	55 - 120				
4-Nitroaniline	84300	1700	55570	0	152	55 - 120				S
4-Nitrophenol	119400	1700	111100	0	107	50 - 130				
Acenaphthene	62140	1700	55570	0	112	55 - 120				
Acenaphthylene	57590	1700	55570	0	104	55 - 120				
Acetophenone	52110	1700	55570	0	93.8	54 - 120				
Anthracene	51530	1700	55570	0	92.7	55 - 120				
Atrazine	69860	1700	55570	0	126	55 - 130				
Benz(a)anthracene	65020	1700	55570	0	117	55 - 125				
Benzaldehyde	46520	1700	55570	0	83.7	20 - 132				
Benzo(a)pyrene	41240	1700	55570	0	74.2	55 - 120				
Benzo(b)fluoranthene	48550	1700	55570	0	87.4	55 - 125				
Benzo(g,h,i)perylene	47980	1700	55570	0	86.4	55 - 120				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Effective Environmental Inc.
Project: USOR - Storage Hopper Waste 8368
WorkOrder: HS15070410

QC BATCH REPORT

Batch ID: 95244 **Instrument: SV-5** **Method: SW8270**

MS Sample ID: **HS15070410-01MS** Units: **ug/Kg** Analysis Date: **15-Jul-2015 19:09**
Client ID: **USOR-Storage Hopper Liquid** Run ID: **SV-5_257952** SeqNo: **3357308** PrepDate: **15-Jul-2015** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzo(k)fluoranthene	55930	1700	55570	0	101	55 - 130				
Bis(2-chloroethoxy)methane	44020	1700	55570	0	79.2	55 - 120				
Bis(2-chloroethyl)ether	55720	1700	55570	0	100	55 - 120				
Bis(2-chloroisopropyl)ether	65380	1700	55570	0	118	55 - 120				
Bis(2-ethylhexyl)phthalate	606300	1700	55570	644200	-68.3	55 - 125				SO
Butyl benzyl phthalate	55420	1700	55570	0	99.7	55 - 125				
Caprolactam	86930	1700	55570	0	156	55 - 140				S
Carbazole	46570	1700	55570	0	83.8	55 - 120				
Chrysene	58370	1700	55570	0	105	55 - 125				
Dibenz(a,h)anthracene	33280	1700	55570	0	59.9	55 - 120				
Dibenzofuran	54210	1700	55570	0	97.6	55 - 120				
Diethyl phthalate	63290	1700	55570	0	114	55 - 120				
Dimethyl phthalate	54980	1700	55570	0	98.9	55 - 120				
Di-n-butyl phthalate	61580	1700	55570	0	111	55 - 125				
Di-n-octyl phthalate	56030	1700	55570	0	101	55 - 130				
Fluoranthene	54890	1700	55570	0	98.8	55 - 125				
Fluorene	61450	1700	55570	0	111	55 - 120				
Hexachlorobenzene	49270	1700	55570	0	88.7	55 - 120				
Hexachlorobutadiene	39840	1700	55570	0	71.7	55 - 120				
Hexachlorocyclopentadiene	U	1700	55570	0	0	50 - 120				S
Hexachloroethane	56660	1700	55570	0	102	55 - 120				
Indeno(1,2,3-cd)pyrene	65960	1700	55570	0	119	55 - 125				
Isophorone	46840	1700	55570	0	84.3	55 - 120				
Naphthalene	57600	1700	55570	0	104	55 - 120				
Nitrobenzene	52810	1700	55570	0	95.0	55 - 120				
N-Nitrosodi-n-propylamine	44950	1700	55570	0	80.9	55 - 120				
N-Nitrosodiphenylamine	106900	1700	55570	0	192	55 - 120				S
Pentachlorophenol	45430	1700	111100	0	40.9	50 - 135				S
Phenanthrene	51360	1700	55570	0	92.4	55 - 120				
Phenol	94890	1700	111100	0	85.4	50 - 120				
Pyrene	75990	1700	55570	0	137	55 - 125				S
Surr: 2,4,6-Tribromophenol	*76850*	*1700*	*111100*	*0*	*69.2*	*36 - 126*				
Surr: 2-Fluorobiphenyl	*110200*	*1700*	*111100*	*0*	*99.2*	*43 - 125*				
Surr: 2-Fluorophenol	*76830*	*1700*	*111100*	*0*	*69.2*	*37 - 125*				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Effective Environmental Inc.
Project: USOR - Storage Hopper Waste 8368
WorkOrder: HS15070410

QC BATCH REPORT

Batch ID: 95244 **Instrument: SV-5** **Method: SW8270**

MS Sample ID: **HS15070410-01MS** Units: **ug/Kg** Analysis Date: **15-Jul-2015 19:09**
Client ID: **USOR-Storage Hopper Liquid** Run ID: **SV-5_257952** SeqNo: **3357308** PrepDate: **15-Jul-2015** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Surr: 4-Terphenyl-d14	*100100*	*1700*	*111100*	*0*	*90.1*	*32 - 125*				
Surr: Nitrobenzene-d5	*97350*	*1700*	*111100*	*0*	*87.6*	*37 - 125*				
Surr: Phenol-d6	*82700*	*1700*	*111100*	*0*	*74.4*	*40 - 125*				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Effective Environmental Inc.
Project: USOR - Storage Hopper Waste 8368
WorkOrder: HS15070410

QC BATCH REPORT

Batch ID: 95244 **Instrument: SV-5** **Method: SW8270**

MSD Sample ID: **HS15070410-01MSD** Units: **ug/Kg** Analysis Date: **15-Jul-2015 19:34**
Client ID: **USOR-Storage Hopper Liquid** Run ID: **SV-5_257952** SeqNo: **3357309** PrepDate: **15-Jul-2015** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
1,1´-Biphenyl	72350	1700	55570	0	130	55 - 120	71090	1.76	30	S
2,4,5-Trichlorophenol	101700	1700	111100	0	91.5	55 - 120	79620	24.4	30	
2,4,6-Trichlorophenol	94400	1700	111100	0	85.0	55 - 120	86040	9.27	30	
2,4-Dichlorophenol	74960	1700	111100	0	67.5	55 - 120	70610	5.98	30	
2,4-Dimethylphenol	80700	1700	111100	0	72.6	55 - 125	95920	17.2	30	
2,4-Dinitrophenol	35990	1700	111100	0	32.4	40 - 125	28100	24.6	30	S
2,4-Dinitrotoluene	81320	1700	55570	0	146	55 - 125	84320	3.63	30	S
2,6-Dinitrotoluene	63830	1700	55570	0	115	55 - 120	65430	2.48	30	
2-Chloronaphthalene	67160	1700	55570	0	121	55 - 145	50400	28.5	30	
2-Chlorophenol	90610	1700	111100	0	81.6	55 - 120	87590	3.38	30	
2-Methylnaphthalene	50740	1700	55570	0	91.3	55 - 120	48670	4.17	30	
2-Methylphenol	93650	1700	111100	0	84.3	55 - 120	98320	4.86	30	
2-Nitroaniline	159100	1700	55570	0	286	55 - 130	76050	70.6	30	SR
2-Nitrophenol	76650	1700	111100	0	69.0	55 - 120	85090	10.4	30	
3&4-Methylphenol	144700	1700	166700	0	86.8	55 - 120	118800	19.7	30	
3,3´-Dichlorobenzidine	56920	1700	55570	0	102	32 - 125	52730	7.64	30	
3-Nitroaniline	57040	1700	55570	0	103	43 - 120	40820	33.1	30	R
4,6-Dinitro-2-methylphenol	73600	1700	111100	0	66.2	50 - 130	68580	7.07	30	
4-Bromophenyl phenyl ether	40810	1700	55570	0	73.4	55 - 120	40360	1.12	30	
4-Chloro-3-methylphenol	100700	1700	111100	0	90.7	55 - 120	66610	40.8	30	R
4-Chloroaniline	43020	1700	55570	0	77.4	30 - 120	38440	11.3	30	
4-Chlorophenyl phenyl ether	49060	1700	55570	0	88.3	55 - 120	58340	17.3	30	
4-Nitroaniline	66060	1700	55570	0	119	55 - 120	84300	24.3	30	
4-Nitrophenol	72640	1700	111100	0	65.4	50 - 130	119400	48.7	30	R
Acenaphthene	78020	1700	55570	0	140	55 - 120	62140	22.7	30	S
Acenaphthylene	61720	1700	55570	0	111	55 - 120	57590	6.93	30	
Acetophenone	60360	1700	55570	0	109	54 - 120	52110	14.7	30	
Anthracene	53090	1700	55570	0	95.5	55 - 120	51530	2.97	30	
Atrazine	76690	1700	55570	0	138	55 - 130	69860	9.32	30	S
Benz(a)anthracene	64810	1700	55570	0	117	55 - 125	65020	0.322	30	
Benzaldehyde	53250	1700	55570	0	95.8	20 - 132	46520	13.5	30	
Benzo(a)pyrene	48710	1700	55570	0	87.7	55 - 120	41240	16.6	30	
Benzo(b)fluoranthene	37670	1700	55570	0	67.8	55 - 125	48550	25.2	30	
Benzo(g,h,i)perylene	48660	1700	55570	0	87.6	55 - 120	47980	1.4	30	

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Effective Environmental Inc.
Project: USOR - Storage Hopper Waste 8368
WorkOrder: HS15070410

QC BATCH REPORT

Batch ID: 95244 **Instrument: SV-5** **Method: SW8270**

MSD Sample ID: **HS15070410-01MSD** Units: **ug/Kg** Analysis Date: **15-Jul-2015 19:34**
Client ID: **USOR-Storage Hopper Liquid** Run ID: **SV-5_257952** SeqNo: **3357309** PrepDate: **15-Jul-2015** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Benzo(k)fluoranthene	48620	1700	55570	0	87.5	55 - 130	55930	14	30	
Bis(2-chloroethoxy)methane	56340	1700	55570	0	101	55 - 120	44020	24.5	30	
Bis(2-chloroethyl)ether	50160	1700	55570	0	90.3	55 - 120	55720	10.5	30	
Bis(2-chloroisopropyl)ether	64060	1700	55570	0	115	55 - 120	65380	2.04	30	
Bis(2-ethylhexyl)phthalate	580500	1700	55570	644200	-115	55 - 125	606300	4.34	30	SO
Butyl benzyl phthalate	55120	1700	55570	0	99.2	55 - 125	55420	0.548	30	
Caprolactam	165000	1700	55570	0	297	55 - 140	86930	62	30	SR
Carbazole	57750	1700	55570	0	104	55 - 120	46570	21.4	30	
Chrysene	64880	1700	55570	0	117	55 - 125	58370	10.6	30	
Dibenz(a,h)anthracene	31230	1700	55570	0	56.2	55 - 120	33280	6.38	30	
Dibenzofuran	54050	1700	55570	0	97.3	55 - 120	54210	0.299	30	
Diethyl phthalate	60070	1700	55570	0	108	55 - 120	63290	5.22	30	
Dimethyl phthalate	52200	1700	55570	0	93.9	55 - 120	54980	5.18	30	
Di-n-butyl phthalate	63010	1700	55570	0	113	55 - 125	61580	2.3	30	
Di-n-octyl phthalate	50480	1700	55570	0	90.8	55 - 130	56030	10.4	30	
Fluoranthene	54900	1700	55570	0	98.8	55 - 125	54890	0.0122	30	
Fluorene	63140	1700	55570	0	114	55 - 120	61450	2.71	30	
Hexachlorobenzene	42930	1700	55570	0	77.3	55 - 120	49270	13.8	30	
Hexachlorobutadiene	40080	1700	55570	0	72.1	55 - 120	39840	0.607	30	
Hexachlorocyclopentadiene	2891	1700	55570	0	5.20	50 - 120	0	200	30	SR
Hexachloroethane	71310	1700	55570	0	128	55 - 120	56660	22.9	30	S
Indeno(1,2,3-cd)pyrene	35210	1700	55570	0	63.4	55 - 125	65960	60.8	30	R
Isophorone	58840	1700	55570	0	106	55 - 120	46840	22.7	30	
Naphthalene	69170	1700	55570	0	124	55 - 120	57600	18.3	30	S
Nitrobenzene	50140	1700	55570	0	90.2	55 - 120	52810	5.18	30	
N-Nitrosodi-n-propylamine	56190	1700	55570	0	101	55 - 120	44950	22.2	30	
N-Nitrosodiphenylamine	133400	1700	55570	0	240	55 - 120	106900	22.1	30	S
Pentachlorophenol	58390	1700	111100	0	52.6	50 - 135	45430	25	30	
Phenanthrene	50540	1700	55570	0	91.0	55 - 120	51360	1.61	30	
Phenol	99380	1700	111100	0	89.4	50 - 120	94890	4.62	30	
Pyrene	78150	1700	55570	0	141	55 - 125	75990	2.8	30	S
Surr: 2,4,6-Tribromophenol	*85030*	*1700*	*111100*	*0*	*76.5*	*36 - 126*	*76850*	*10.1*	*30*	
Surr: 2-Fluorobiphenyl	*110800*	*1700*	*111100*	*0*	*99.7*	*43 - 125*	*110200*	*0.544*	*30*	
Surr: 2-Fluorophenol	*97330*	*1700*	*111100*	*0*	*87.6*	*37 - 125*	*76830*	*23.5*	*30*	

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Effective Environmental Inc.
Project: USOR - Storage Hopper Waste 8368
WorkOrder: HS15070410

QC BATCH REPORT

Batch ID: 95244 **Instrument: SV-5** **Method: SW8270**

MSD Sample ID: **HS15070410-01MSD** Units: **ug/Kg** Analysis Date: **15-Jul-2015 19:34**
Client ID: **USOR-Storage Hopper Liquid** Run ID: **SV-5_257952** SeqNo: **3357309** PrepDate: **15-Jul-2015** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Surr: 4-Terphenyl-d14	*98120*	*1700*	*111100*	*0*	*88.3*	*32 - 125*	*100100*	*2.02*	*30*	
Surr: Nitrobenzene-d5	*83070*	*1700*	*111100*	*0*	*74.8*	*37 - 125*	*97350*	*15.8*	*30*	
Surr: Phenol-d6	*78860*	*1700*	*111100*	*0*	*71.0*	*40 - 125*	*82700*	*4.76*	*30*	

The following samples were anayzed in this batch: HS15070410-01

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Effective Environmental Inc.
Project: USOR - Storage Hopper Waste 8368
WorkOrder: HS15070410

QC BATCH REPORT

Batch ID: R258086 **Instrument: VOA6** **Method: SW8260**

MBLK Sample ID: **VBLKM-150717** Units: **ug/Kg** Analysis Date: **17-Jul-2015 10:48**
Client ID: Run ID: **VOA6_258086** SeqNo: **3358801** PrepDate: DF: **50**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U	250								
1,1,2,2-Tetrachloroethane	U	250								
1,1,2-Trichlor-1,2,2-trifluoroethane	U	250								
1,1,2-Trichloroethane	U	250								
1,1-Dichloroethane	U	250								
1,1-Dichloroethene	U	250								
1,2,4-Trichlorobenzene	U	250								
1,2-Dibromo-3-chloropropane	U	250								
1,2-Dibromoethane	U	250								
1,2-Dichlorobenzene	U	250								
1,2-Dichloroethane	U	250								
1,2-Dichloropropane	U	250								
1,3-Dichlorobenzene	U	250								
1,4-Dichlorobenzene	U	250								
2-Butanone	U	500								
2-Hexanone	U	500								
4-Methyl-2-pentanone	U	500								
Acetone	U	1000								
Benzene	U	250								
Bromodichloromethane	U	250								
Bromoform	U	250								
Bromomethane	U	500								
Carbon disulfide	U	500								
Carbon tetrachloride	U	250								
Chlorobenzene	U	250								
Chloroethane	U	500								
Chloroform	U	250								
Chloromethane	U	500								
cis-1,2-Dichloroethene	U	250								
cis-1,3-Dichloropropene	U	250								
Cyclohexane	U	250								
Dibromochloromethane	U	250								
Dichlorodifluoromethane	U	250								
Ethylbenzene	U	250								

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Effective Environmental Inc.
Project: USOR - Storage Hopper Waste 8368
WorkOrder: HS15070410

QC BATCH REPORT

Batch ID: R258086 **Instrument: VOA6** **Method: SW8260**

MBLK Sample ID: **VBLKM-150717** Units: **ug/Kg** Analysis Date: **17-Jul-2015 10:48**
Client ID: Run ID: **VOA6_258086** SeqNo: **3358801** PrepDate: DF: **50**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Isopropylbenzene	U	250								
m,p-Xylene	U	500								
Methyl acetate	U	250								
Methyl tert-butyl ether	U	250								
Methylcyclohexane	U	250								
Methylene chloride	U	500								
o-Xylene	U	250								
Styrene	U	250								
Tetrachloroethene	U	250								
Toluene	U	250								
trans-1,2-Dichloroethene	U	250								
trans-1,3-Dichloropropene	U	250								
Trichloroethene	U	250								
Trichlorofluoromethane	U	250								
Vinyl chloride	U	100								
Xylenes, Total	U	500								
Surr: 1,2-Dichloroethane-d4	*2137*	*0*	*2500*	*0*	*85.5*	*70 - 128*				
Surr: 4-Bromofluorobenzene	*2405*	*0*	*2500*	*0*	*96.2*	*73 - 126*				
Surr: Dibromofluoromethane	*2465*	*0*	*2500*	*0*	*98.6*	*71 - 128*				
Surr: Toluene-d8	*2353*	*0*	*2500*	*0*	*94.1*	*73 - 127*				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Effective Environmental Inc.
Project: USOR - Storage Hopper Waste 8368
WorkOrder: HS15070410

QC BATCH REPORT

Batch ID: R258086 **Instrument: VOA6** **Method: SW8260**

LCS Sample ID: **VLCSW-150717** Units: **ug/L** Analysis Date: **17-Jul-2015 09:59**
Client ID: Run ID: **VOA6_258086** SeqNo: **3358773** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	49.03	5.0	50	0	98.1	75 - 130				
1,1,2,2-Tetrachloroethane	41.94	5.0	50	0	83.9	74 - 123				
1,1,2-Trichlor-1,2,2-trifluoroethane	53.53	5.0	50	0	107	70 - 130				
1,1,2-Trichloroethane	45.21	5.0	50	0	90.4	80 - 120				
1,1-Dichloroethane	50.15	5.0	50	0	100	76 - 120				
1,1-Dichloroethene	53.5	5.0	50	0	107	75 - 130				
1,2,4-Trichlorobenzene	47.54	5.0	50	0	95.1	75 - 126				
1,2-Dibromo-3-chloropropane	47.62	5.0	50	0	95.2	65 - 125				
1,2-Dibromoethane	46.78	5.0	50	0	93.6	80 - 121				
1,2-Dichlorobenzene	43.87	5.0	50	0	87.7	80 - 120				
1,2-Dichloroethane	41.42	5.0	50	0	82.8	76 - 120				
1,2-Dichloropropane	51.4	5.0	50	0	103	80 - 120				
1,3-Dichlorobenzene	44.66	5.0	50	0	89.3	80 - 120				
1,4-Dichlorobenzene	43.52	5.0	50	0	87.0	80 - 120				
2-Butanone	109	10	100	0	109	58 - 132				
2-Hexanone	92.08	10	100	0	92.1	61 - 130				
4-Methyl-2-pentanone	91.76	10	100	0	91.8	65 - 127				
Acetone	97.45	10	100	0	97.4	59 - 137				
Benzene	51.38	5.0	50	0	103	73 - 121				
Bromodichloromethane	48.66	5.0	50	0	97.3	75 - 125				
Bromoform	46.3	5.0	50	0	92.6	70 - 130				
Bromomethane	47.56	5.0	50	0	95.1	60 - 145				
Carbon disulfide	108	10	100	0	108	68 - 141				
Carbon tetrachloride	49.58	5.0	50	0	99.2	75 - 125				
Chlorobenzene	47.25	5.0	50	0	94.5	80 - 120				
Chloroethane	48.38	5.0	50	0	96.8	70 - 130				
Chloroform	48.77	5.0	50	0	97.5	70 - 130				
Chloromethane	53.4	5.0	50	0	107	67 - 123				
cis-1,2-Dichloroethene	54.01	5.0	50	0	108	78 - 120				
cis-1,3-Dichloropropene	53.43	5.0	50	0	107	80 - 120				
Cyclohexane	56.54	5.0	50	0	113	66 - 125				
Dibromochloromethane	45.69	5.0	50	0	91.4	80 - 120				
Dichlorodifluoromethane	46.15	5.0	50	0	92.3	63 - 125				
Ethylbenzene	48	5.0	50	0	96.0	80 - 120				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Effective Environmental Inc.
Project: USOR - Storage Hopper Waste 8368
WorkOrder: HS15070410

QC BATCH REPORT

Batch ID: R258086 **Instrument: VOA6** **Method: SW8260**

LCS Sample ID: **VLCSW-150717** Units: **ug/L** Analysis Date: **17-Jul-2015 09:59**
Client ID: Run ID: **VOA6_258086** SeqNo: **3358773** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Isopropylbenzene	46.59	5.0	50	0	93.2	75 - 130				
m,p-Xylene	96.42	10	100	0	96.4	78 - 121				
Methyl acetate	52.27	5.0	50	0	105	60 - 130				
Methyl tert-butyl ether	48.67	5.0	50	0	97.3	70 - 125				
Methylcyclohexane	55.44	5.0	50	0	111	70 - 122				
Methylene chloride	51.54	10	50	0	103	65 - 133				
o-Xylene	46.81	5.0	50	0	93.6	80 - 120				
Styrene	48.25	5.0	50	0	96.5	80 - 120				
Tetrachloroethene	47.76	5.0	50	0	95.5	74 - 125				
Toluene	45.86	5.0	50	0	91.7	80 - 120				
trans-1,2-Dichloroethene	55.98	5.0	50	0	112	78 - 120				
trans-1,3-Dichloropropene	52.77	5.0	50	0	106	80 - 120				
Trichloroethene	53.76	5.0	50	0	108	80 - 120				
Trichlorofluoromethane	45.57	5.0	50	0	91.1	72 - 130				
Vinyl chloride	54.88	2.0	50	0	110	70 - 127				
Xylenes, Total	143.2	15	150	0	95.5	80 - 120				
Surr: 1,2-Dichloroethane-d4	*43.27*	*0*	*50*	*0*	*86.5*	*70 - 125*				
Surr: 4-Bromofluorobenzene	*50.65*	*0*	*50*	*0*	*101*	*72 - 125*				
Surr: Dibromofluoromethane	*48.63*	*0*	*50*	*0*	*97.3*	*71 - 125*				
Surr: Toluene-d8	*46.96*	*0*	*50*	*0*	*93.9*	*75 - 125*				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Effective Environmental Inc.
Project: USOR - Storage Hopper Waste 8368
WorkOrder: HS15070410

QC BATCH REPORT

Batch ID: R258086 **Instrument: VOA6** **Method: SW8260**

MS Sample ID: **HS15070717-01MS** Units: **ug/Kg** Analysis Date: **17-Jul-2015 14:02**
Client ID: Run ID: **VOA6_258086** SeqNo: **3358937** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	43.23	5.0	50	0	86.5	79 - 128				
1,1,2,2-Tetrachloroethane	46.02	5.0	50	0	92.0	75 - 123				
1,1,2-Trichlor-1,2,2-trifluoroethane	40.29	5.0	50	0	80.6	76 - 127				
1,1,2-Trichloroethane	47.46	5.0	50	0	94.9	77 - 120				
1,1-Dichloroethane	48.61	5.0	50	0	97.2	75 - 124				
1,1-Dichloroethene	45.98	5.0	50	0	92.0	76 - 128				
1,2,4-Trichlorobenzene	42.71	5.0	50	0	85.4	74 - 128				
1,2-Dibromo-3-chloropropane	50.32	5.0	50	0	101	66 - 129				
1,2-Dibromoethane	48.22	5.0	50	0	96.4	70 - 120				
1,2-Dichlorobenzene	43.12	5.0	50	0	86.2	75 - 120				
1,2-Dichloroethane	43.79	5.0	50	0	87.6	73 - 121				
1,2-Dichloropropane	53.31	5.0	50	0	107	75 - 124				
1,3-Dichlorobenzene	41.35	5.0	50	0	82.7	70 - 125				
1,4-Dichlorobenzene	42.09	5.0	50	0	84.2	77 - 120				
2-Butanone	119.4	10	100	0	119	65 - 130				
2-Hexanone	101	10	100	0	101	65 - 133				
4-Methyl-2-pentanone	101.9	10	100	0	102	69 - 130				
Acetone	99.47	20	100	0	99.5	53 - 142				
Benzene	50.76	5.0	50	0	102	79 - 122				
Bromodichloromethane	49.65	5.0	50	0	99.3	79 - 121				
Bromoform	49.67	5.0	50	0	99.3	74 - 125				
Bromomethane	42.19	10	50	0	84.4	68 - 131				
Carbon disulfide	96.54	10	100	0	96.5	78 - 131				
Carbon tetrachloride	42.07	5.0	50	0	84.1	74 - 126				
Chlorobenzene	46.12	5.0	50	0	92.2	79 - 120				
Chloroethane	46	10	50	0	92.0	74 - 126				
Chloroform	48.07	5.0	50	0	96.1	78 - 122				
Chloromethane	51.24	10	50	0	102	69 - 129				
cis-1,2-Dichloroethene	52.65	5.0	50	0	105	78 - 122				
cis-1,3-Dichloropropene	54.11	5.0	50	0	108	77 - 123				
Cyclohexane	42.98	5.0	50	0	86.0	74 - 126				
Dibromochloromethane	48.45	5.0	50	0	96.9	78 - 122				
Dichlorodifluoromethane	37.86	5.0	50	0	75.7	57 - 140				
Ethylbenzene	43.72	5.0	50	0	87.4	80 - 122				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Effective Environmental Inc.
Project: USOR - Storage Hopper Waste 8368
WorkOrder: HS15070410

QC BATCH REPORT

Batch ID: R258086 **Instrument: VOA6** **Method: SW8260**

MS Sample ID: **HS15070717-01MS** Units: **ug/Kg** Analysis Date: **17-Jul-2015 14:02**
Client ID: Run ID: **VOA6_258086** SeqNo: **3358937** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Isopropylbenzene	40.02	5.0	50	0	80.0	72 - 127				
m,p-Xylene	86.04	10	100	0	86.0	79 - 122				
Methyl acetate	54.12	5.0	50	0	108	69 - 123				
Methyl tert-butyl ether	48.98	5.0	50	0	98.0	76 - 124				
Methylcyclohexane	47.8	5.0	50	0	95.6	77 - 127				
Methylene chloride	53.14	10	50	0	106	65 - 130				
o-Xylene	45.29	5.0	50	0	90.6	80 - 123				
Styrene	47.48	5.0	50	0	95.0	78 - 124				
Tetrachloroethene	42.88	5.0	50	0	85.8	70 - 130				
Toluene	43.97	5.0	50	0	87.9	79 - 120				
trans-1,2-Dichloroethene	51.38	5.0	50	0	103	79 - 122				
trans-1,3-Dichloropropene	53.58	5.0	50	0	107	77 - 120				
Trichloroethene	48.34	5.0	50	0	96.7	75 - 123				
Trichlorofluoromethane	37.77	5.0	50	0	75.5	75 - 126				
Vinyl chloride	44.58	2.0	50	0	89.2	76 - 126				
Xylenes, Total	131.3	10	150	0	87.6	80 - 120				
Surr: 1,2-Dichloroethane-d4	*41.97*	*0*	*50*	*0*	*83.9*	*70 - 128*				
Surr: 4-Bromofluorobenzene	*51.73*	*0*	*50*	*0*	*103*	*73 - 126*				
Surr: Dibromofluoromethane	*47.24*	*0*	*50*	*0*	*94.5*	*71 - 128*				
Surr: Toluene-d8	*46.83*	*0*	*50*	*0*	*93.7*	*73 - 127*				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Effective Environmental Inc.
Project: USOR - Storage Hopper Waste 8368
WorkOrder: HS15070410

QC BATCH REPORT

Batch ID: R258086 **Instrument: VOA6** **Method: SW8260**

MSD Sample ID: **HS15070717-01MSD** Units: **ug/Kg** Analysis Date: **17-Jul-2015 14:26**
Client ID: Run ID: **VOA6_258086** SeqNo: **3358938** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
1,1,1-Trichloroethane	43.02	5.0	50	0	86.0	79 - 128	43.23	0.487	30	
1,1,2,2-Tetrachloroethane	48.99	5.0	50	0	98.0	75 - 123	46.02	6.24	30	
1,1,2-Trichlor-1,2,2-trifluoroethane	41.54	5.0	50	0	83.1	76 - 127	40.29	3.06	30	
1,1,2-Trichloroethane	49.84	5.0	50	0	99.7	77 - 120	47.46	4.89	30	
1,1-Dichloroethane	47.94	5.0	50	0	95.9	75 - 124	48.61	1.39	30	
1,1-Dichloroethene	45.06	5.0	50	0	90.1	76 - 128	45.98	2.03	30	
1,2,4-Trichlorobenzene	44.81	5.0	50	0	89.6	74 - 128	42.71	4.8	30	
1,2-Dibromo-3-chloropropane	56.34	5.0	50	0	113	66 - 129	50.32	11.3	30	
1,2-Dibromoethane	51	5.0	50	0	102	70 - 120	48.22	5.61	30	
1,2-Dichlorobenzene	44.96	5.0	50	0	89.9	75 - 120	43.12	4.18	30	
1,2-Dichloroethane	46	5.0	50	0	92.0	73 - 121	43.79	4.94	30	
1,2-Dichloropropane	53.47	5.0	50	0	107	75 - 124	53.31	0.306	30	
1,3-Dichlorobenzene	43.72	5.0	50	0	87.4	70 - 125	41.35	5.58	30	
1,4-Dichlorobenzene	44.1	5.0	50	0	88.2	77 - 120	42.09	4.67	30	
2-Butanone	122.5	10	100	0	122	65 - 130	119.4	2.56	30	
2-Hexanone	107.6	10	100	0	108	65 - 133	101	6.38	30	
4-Methyl-2-pentanone	105.4	10	100	0	105	69 - 130	101.9	3.36	30	
Acetone	100.4	20	100	0	100	53 - 142	99.47	0.953	30	
Benzene	52.43	5.0	50	0	105	79 - 122	50.76	3.23	30	
Bromodichloromethane	49.85	5.0	50	0	99.7	79 - 121	49.65	0.407	30	
Bromoform	52.01	5.0	50	0	104	74 - 125	49.67	4.6	30	
Bromomethane	45.78	10	50	0	91.6	68 - 131	42.19	8.15	30	
Carbon disulfide	96.58	10	100	0	96.6	78 - 131	96.54	0.0432	30	
Carbon tetrachloride	42.94	5.0	50	0	85.9	74 - 126	42.07	2.06	30	
Chlorobenzene	47.5	5.0	50	0	95.0	79 - 120	46.12	2.93	30	
Chloroethane	45.42	10	50	0	90.8	74 - 126	46	1.26	30	
Chloroform	48.36	5.0	50	0	96.7	78 - 122	48.07	0.607	30	
Chloromethane	51.24	10	50	0	102	69 - 129	51.24	0.00861	30	
cis-1,2-Dichloroethene	54.11	5.0	50	0	108	78 - 122	52.65	2.75	30	
cis-1,3-Dichloropropene	56.97	5.0	50	0	114	77 - 123	54.11	5.14	30	
Cyclohexane	44.29	5.0	50	0	88.6	74 - 126	42.98	3.01	30	
Dibromochloromethane	49.4	5.0	50	0	98.8	78 - 122	48.45	1.94	30	
Dichlorodifluoromethane	36.99	5.0	50	0	74.0	57 - 140	37.86	2.32	30	
Ethylbenzene	44.68	5.0	50	0	89.4	80 - 122	43.72	2.15	30	

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Effective Environmental Inc.
Project: USOR - Storage Hopper Waste 8368
WorkOrder: HS15070410

QC BATCH REPORT

Batch ID: R258086 **Instrument: VOA6** **Method: SW8260**

MSD Sample ID: **HS15070717-01MSD** Units: **ug/Kg** Analysis Date: **17-Jul-2015 14:26**
Client ID: Run ID: **VOA6_258086** SeqNo: **3358938** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Isopropylbenzene	40.5	5.0	50	0	81.0	72 - 127	40.02	1.2	30	
m,p-Xylene	87.43	10	100	0	87.4	79 - 122	86.04	1.6	30	
Methyl acetate	55.81	5.0	50	0	112	69 - 123	54.12	3.07	30	
Methyl tert-butyl ether	48.74	5.0	50	0	97.5	76 - 124	48.98	0.497	30	
Methylcyclohexane	31.35	5.0	50	0	62.7	77 - 127	47.8	41.6	30	SR
Methylene chloride	53.26	10	50	0	107	65 - 130	53.14	0.225	30	
o-Xylene	45.48	5.0	50	0	91.0	80 - 123	45.29	0.418	30	
Styrene	48.21	5.0	50	0	96.4	78 - 124	47.48	1.53	30	
Tetrachloroethene	42.55	5.0	50	0	85.1	70 - 130	42.88	0.793	30	
Toluene	44.09	5.0	50	0	88.2	79 - 120	43.97	0.27	30	
trans-1,2-Dichloroethene	50.95	5.0	50	0	102	79 - 122	51.38	0.833	30	
trans-1,3-Dichloropropene	56.01	5.0	50	0	112	77 - 120	53.58	4.43	30	
Trichloroethene	49.76	5.0	50	0	99.5	75 - 123	48.34	2.9	30	
Trichlorofluoromethane	37.85	5.0	50	0	75.7	75 - 126	37.77	0.211	30	
Vinyl chloride	44.42	2.0	50	0	88.8	76 - 126	44.58	0.366	30	
Xylenes, Total	132.9	10	150	0	88.6	80 - 120	131.3	1.19	30	
Surr: 1,2-Dichloroethane-d4	*42.29*	*0*	*50*	*0*	*84.6*	*70 - 128*	*41.97*	*0.766*	*30*	
Surr: 4-Bromofluorobenzene	*51.39*	*0*	*50*	*0*	*103*	*73 - 126*	*51.73*	*0.662*	*30*	
Surr: Dibromofluoromethane	*47.74*	*0*	*50*	*0*	*95.5*	*71 - 128*	*47.24*	*1.06*	*30*	
Surr: Toluene-d8	*46.06*	*0*	*50*	*0*	*92.1*	*73 - 127*	*46.83*	*1.66*	*30*	

The following samples were anayzed in this batch: HS15070410-01

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Effective Environmental Inc.
Project: USOR - Storage Hopper Waste 8368
WorkOrder: HS15070410

QC BATCH REPORT

Batch ID: R257687 **Instrument: WetChem_HS** **Method: SM4500H+ B**

LCS Sample ID: **LCS-257687** Units: **pH Units** Analysis Date: **10-Jul-2015 15:08**
Client ID: Run ID: **WetChem_HS_257687** SeqNo: **3350986** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	6.04	0.100	6	0	101	97 - 103				

DUP Sample ID: **HS15070409-02DUP** Units: **pH Units** Analysis Date: **10-Jul-2015 15:08**
Client ID: Run ID: **WetChem_HS_257687** SeqNo: **3350987** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	7	0.100					7.07	0.995	10	
Temp Deg C @pH	20.5	0					20.7	0.971	10	

The following samples were anayzed in this batch: HS15070410-01

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Effective Environmental Inc.
Project: USOR - Storage Hopper Waste 8368
WorkOrder: HS15070410

QC BATCH REPORT

Batch ID: R257851 **Instrument: WetChem_HS** **Method: SW1010**

LCS Sample ID: **LCS-257851** Units: **°F** Analysis Date: **14-Jul-2015 15:20**
Client ID: Run ID: **WetChem_HS_257851** SeqNo: **3354061** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ignitability	83	50.0	81	0	102	95 - 105				

DUP Sample ID: **HS15070399-01DUP** Units: **°F** Analysis Date: **14-Jul-2015 15:20**
Client ID: Run ID: **WetChem_HS_257851** SeqNo: **3354062** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ignitability	87	50.0					86	1.16	25	

The following samples were anayzed in this batch: HS15070410-01

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Effective Environmental Inc.
Project: USOR - Storage Hopper Waste 8368
WorkOrder: **HS15070410**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Unit Reported	Description
°F	Farenheit degrees
mg/Kg	Milligrams per Kilogram
mg/L	Milligrams per Liter
pH Units	

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	15-024-0	27-Mar-2016
California	2919	31-Jul-2016
Dept of Defense	L2231 Rev 3-20-2014	22-Dec-2015
Illinois	003622	09-May-2016
Kansas	E-10352 2014-2015	31-Jul-2015
Kentucky	KY 2015-2016	30-Apr-2016
Louisiana	03087 2015/2016	30-Jun-2016
North Carolina	624 - 2015	31-Dec-2015
Oklahoma	2014-128	31-Aug-2015
Texas	T104704231-15-15	30-Apr-2016

Client: Effective Environmental Inc.
Project: USOR - Storage Hopper Waste 8368
Work Order: HS15070410

SAMPLE TRACKING

Lab Samp ID	Client Sample ID	Action	Date	Person	New Location
HS15070410-01	USOR-Storage Hopper Liquid	Login	7/9/2015 6:45:46 PM	RPG	19D
HS15070410-01	USOR-Storage Hopper Liquid	Login	7/9/2015 6:45:46 PM	RPG	19D
HS15070410-01	USOR-Storage Hopper Liquid	Login	7/9/2015 6:45:46 PM	RPG	Sub
HS15070410-01	USOR-Storage Hopper Liquid	Login	7/9/2015 6:45:46 PM	RPG	19D
HS15070410-01	USOR-Storage Hopper Liquid	Login	7/9/2015 6:45:46 PM	RPG	VW-3
HS15070410-01	USOR-Storage Hopper Liquid	Login	7/9/2015 6:45:46 PM	RPG	TPH C1
HS15070410-02	TRIP BLANK 062515-96	Login	7/9/2015 7:54:03 PM	RPG	VW-3
HS15070410-01	USOR-Storage Hopper Liquid	Out	7/10/2015 8:52:38 AM	AAP	METPREP
HS15070410-01	USOR-Storage Hopper Liquid	Return	7/10/2015 2:11:55 PM	AAP	19D
HS15070410-01	USOR-Storage Hopper Liquid	Out	7/13/2015 9:26:39 AM	JCJ	METPREP
HS15070410-01	USOR-Storage Hopper Liquid	Return	7/13/2015 9:26:55 AM	JCJ	19D
HS15070410-01	USOR-Storage Hopper Liquid	Return	7/13/2015 9:26:55 AM	JCJ	19D

Sample Receipt Checklist

Client Name: Effective Env-HOU
Work Order: HS15070410

Date/Time Received: **09-Jul-2015 13:27**
Received by: **PS**

Checklist completed by: *Raegen Giga* 9-Jul-2015
eSignature | Date

Reviewed by: *Dane J. Wacasey* 13-Jul-2015
eSignature | Date

Matrices: **Liquid**

Carrier name: **ALS.HS**

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☐	No ☑	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	0.6c/1.1c u/c	IR 5	
Cooler(s)/Kit(s):	7058		
Date/Time sample(s) sent to storage:	07/09/2015 19:05		
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:			

Login Notes: Sample ID on Label = Tank 07. COC ID = USOR Storage Hopper Liquid. COC information used at log in. Trip Blank received placed on Hold

Client Contacted: Date Contacted: Person Contacted:

Contacted By: 0 Regarding:

Comments:

Corrective Action:

ALS Laboratory Group
10450 Stancliff Rd. #210
Houston, Texas 77099
(Tel) 281.530.5656
(Fax) 281.530.5887

Chain of Custody Form

Page 1 of 1

HS15070410

Effective Environmental Inc.

USOR - Storage Hopper Waste 8368

ALS Project Manager:

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order	FS-24977	Project Name	USOR - Storage Hopper Waste	A	TPH
Work Order	126632	Project Number	8368	B	VOCs
Company Name	Effective Environmental	Bill To Company	Effective Environmental	C	SVOCs
Send Report To	Hiren Shah	Invoice Attn.	Hiren Shah	D	Texas 11 Metals (total)
Address	9950 Chemical Road	Address	2515 S. Beltline Road	E	RCI
				F	
City/State/Zip	Pasadena, TX 77507	City/State/Zip	Mesquite, TX 75181	G	
Phone	281-842-0804	Phone	972-329-1200	H	
Fax	281-474-2580	Fax	972-329-1206	I	
e-Mail Address	hshah@eff-env.com	e-Mail Address	hshah@eff-env.com	J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	USOR - Storage Hopper Liquid	07/08/15	2:10 p.m.	Liquid		11	X	X	X	X							
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	

Sampler(s): Please Print & Sign
Emil J. Orsak

Shipment Method:

Required Turnaround Time:
☐ STD 10 Wk Days ☑ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour ☐ Other _____

Results Due Date:

Relinquished by:	Date:	Time:	Received by:
Emil J. Orsak	7/8/15	4:00 p.m	Hiren Shah
Hiren Shah	7/9/15	9:15 am	Received by (Laboratory):
	7-9-15	1327	

Notes:

Cooler Temp. °C: 0.6

QC Package: (Check Box Below)
- ☐ Level II: Standard QC
- ☐ Level III: Std QC + Raw Data
- ☐ Level IV: SW846 CLP-Like
- ☐ Other: _____
- ☐ TRRP-Checklist
- ☐ TRRP Level IV

Preservative Key: 1-HCL 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-Other 8-4 degrees C 9-5035 IR #5 9F0.5

Note: Any changes must be made in writing once samples and COC Form have been submitted to ALS Laboratory Group.

7058

16-Jul-2015

Dane J. Wacasey
ALS Environmental
10450 Stancliff Rd
Suite 210
Houston, TX 77099

Re: **HS15070410** Work Order: **1507652**

Dear Dane,

ALS Environmental received 1 sample on 11-Jul-2015 09:30 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

Sample results are compliant with NELAP standard requirements and QC results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 9.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Chad Whelton

Electronically approved by: Chad Whelton

Chad Whelton
Project Manager

Certificate No: MN 532786

Report of Laboratory Analysis

ALS Group USA, Corp

Date: 16-Jul-15

Client: ALS Environmental
Project: HS15070410
Work Order: **1507652**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1507652-01	HS15070410-01	Liquid	USOR-Storage Hopper Liquid	7/8/2015 14:10	7/11/2015 09:30	☐

Client: ALS Environmental
Project: HS15070410
WorkOrder: 1507652

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte is present at an estimated concentration between the MDL and Report Limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and PQL, sample results may exhibit background or reagent contamination at the observed level.

Acronym	Description
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

Units Reported	Description
mg/Kg	Milligrams per Kilogram

ALS Group USA, Corp

Date: *16-Jul-15*

Client: ALS Environmental
Project: HS15070410
Sample ID: HS15070410-01
Collection Date: 7/8/2015 02:10 PM

Work Order: 1507652
Lab ID: 1507652-01
Matrix: LIQUID

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
CYANIDE, REACTIVE			**SW7.3.3.2**			Analyst: **TVD**
Cyanide, Reactive	ND		100	mg/Kg	1	7/15/2015 04:20 PM
SULFIDE, REACTIVE			**SW7.3.4.2**			Analyst: **TVD**
Sulfide, Reactive	ND		100	mg/Kg	1	7/15/2015 03:15 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Batch ID: **R167657** Instrument ID **WETCHEM** Method: **SW7.3.4.2**

MBLK Sample ID: **MB-R167657-R167657** Units: **mg/Kg** Analysis Date: **7/15/2015 03:15 PM**

Client ID: Run ID: **WETCHEM_150715J** SeqNo: **3371605** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfide, Reactive	ND	100								

LCS Sample ID: **LCS-R167657-R167657** Units: **mg/Kg** Analysis Date: **7/15/2015 03:15 PM**

Client ID: Run ID: **WETCHEM_150715J** SeqNo: **3371606** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfide, Reactive	1560	100	2149	0	72.6	60-120	0			

The following samples were analyzed in this batch: 1507652-01A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: ALS Environmental
Work Order: 1507652
Project: HS15070410

QC BATCH REPORT

Batch ID: **R167668** Instrument ID **WETCHEM** Method: **SW7.3.3.2**

MBLK Sample ID: **MB-R167668-R167668** Units: **mg/Kg** Analysis Date: **7/15/2015 04:20 PM**
Client ID: Run ID: **WETCHEM_150715M** SeqNo: **3371688** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide, Reactive	ND	100								

LCS Sample ID: **LCS-R167668-R167668** Units: **mg/Kg** Analysis Date: **7/15/2015 04:20 PM**
Client ID: Run ID: **WETCHEM_150715M** SeqNo: **3371689** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide, Reactive	102.8	100	125	0	82.2	75-125	0			

MS Sample ID: **1507652-01A MS** Units: **mg/Kg** Analysis Date: **7/15/2015 04:20 PM**
Client ID: **HS15070410-01** Run ID: **WETCHEM_150715M** SeqNo: **3371691** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide, Reactive	228.5	100	250	0	91.4	50-150	0			

MSD Sample ID: **1507652-01A MSD** Units: **mg/Kg** Analysis Date: **7/15/2015 04:20 PM**
Client ID: **HS15070410-01** Run ID: **WETCHEM_150715M** SeqNo: **3371692** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide, Reactive	228.5	100	250	0	91.4	50-150	228.5	0	35	

The following samples were analyzed in this batch: 1507652-01A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

CHAIN OF CUSTODY RECORD

ALS Environmental

Date 10 Jul 2015

COC ID 3103

Due date 16 JUL 15

Subcontractor

ALS Laboratory Group
3352 128th Ave.
Holland, MI 494249263

Phone
6163996070

Fax
6163996185

150 7652

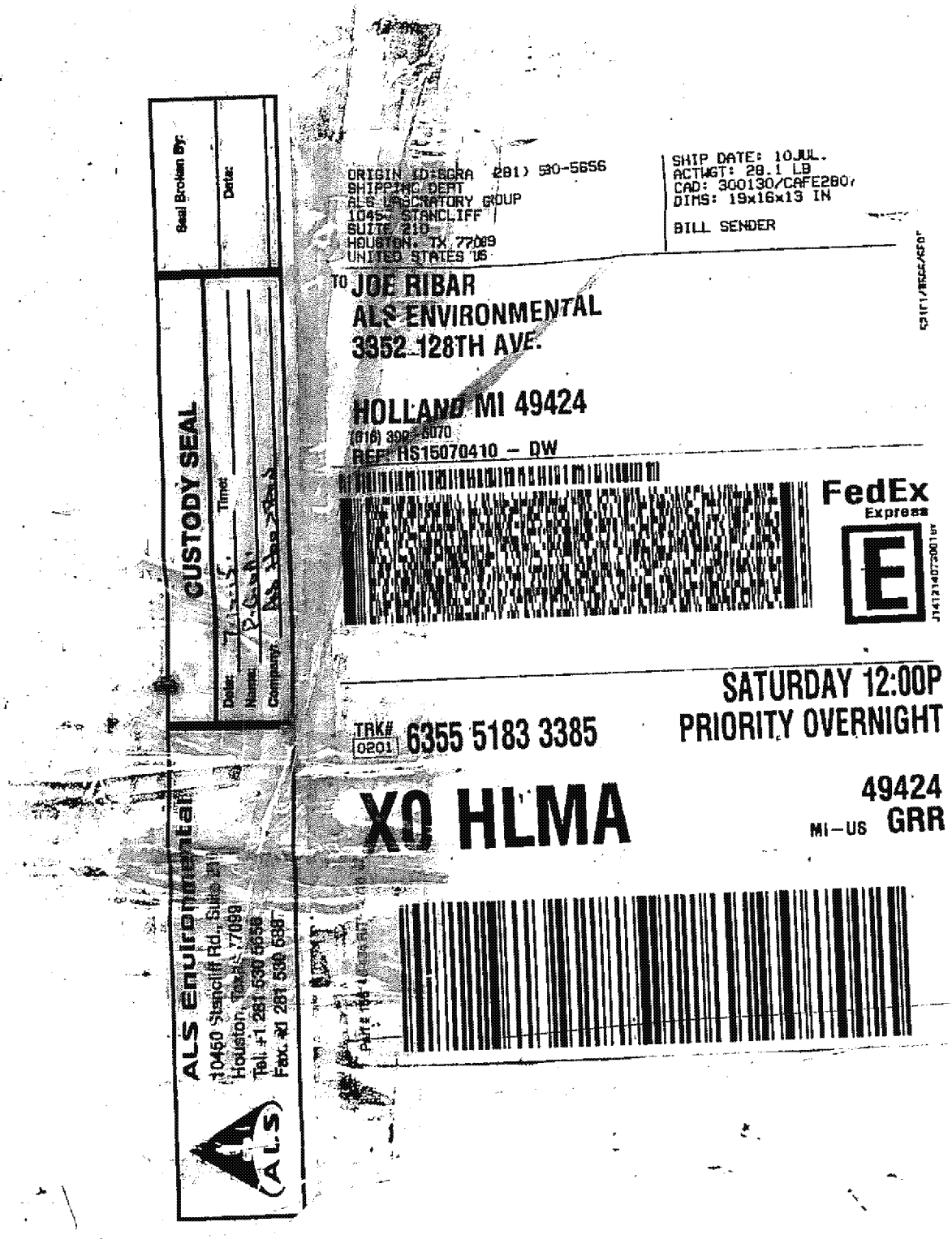
Customer Information		Project Information	
PO	HS15070410	Project Name	HS15070410

Company Name	ALS Houston	Company Name	ALS Houston
		Inv Attn	Accounts Payable
Address	10450 Stancliff Rd, Ste 210	Address	10450 Stancliff Rd, Ste 210
	Houston, TX 77099		Houston, TX 77099
Phone	281-530-5656	Phone	281-530-5656
Email1	Dane.Wacasey@alsglobal.com	Email2	jumoke.lawal@alsglobal.com

Lab ID	Client Samp ID	Collection Date	Matrix	Analysis Requested
HS15070410-01	USOR-Storage Hopper Liquid	08-Jul-15 02:10 pm	Liquid	RCN_W, RS_W

Comments Please analyze for the analysis listed above. Send report to the emails shown above.

Relinquished by:	Date/Time:	Received by:	Date/Time:	Cooler IDs:	Report/QC Level
R Giga	7/10/15 18:00	7-11-15 9:30		2.0°C	STD


Seal Broken By:
Date:
CUSTODY SEAL
Time:
Date:
Name:
Company:
ALS Environmental
10460 Stancliff Rd. Suite 210
Houston, Texas 77099
Tel: +1 281 530 5656
Fax: +1 281 530 5887
ORIGIN ID:SGRA (281) 530-5656
SHIPPING DEPT
ALS LABORATORY GROUP
10450 STANCLIFF
SUITE 210
HOUSTON, TX 77099
UNITED STATES US
SHIP DATE: 10JUL.
ACTWGT: 28.1 LB
CAD: 300130/CAFE2801
DIMS: 19x16x13 IN
BILL SENDER
TO JOE RIBAR
ALS ENVIRONMENTAL
3352 128TH AVE.
HOLLAND MI 49424
(616) 399-6070
REF: HS15070410 - DW
FedEx Express
TRK# 0201 6355 5183 3385
SATURDAY 12:00P
PRIORITY OVERNIGHT
XO HLMA
49424
MI-US GRR

ALS Group USA, Corp

Sample Receipt Checklist

Client Name: **ALS - HOUSTON** Date/Time Received: **11-Jul-15 09:30**

Work Order: **1507652** Received by: **DS**

Checklist completed by Naoma Leonard 13-Jul-15 Reviewed by: Chad Whilton 13-Jul-15

eSignature Date eSignature Date

Matrices: Liquid

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Sample(s) received on ice?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	2.0 C	SR2	
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	7/13/2015 7/13/2015		
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☑	No ☐	N/A ☐
pH adjusted?	Yes ☐	No ☑	N/A ☐
pH adjusted by:	-		

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

SRC Page 1 of 1